

aaacagaact	tctacccaac	cttagtgc	ttttattttc	acaagtnaaa	cagaaaagga	180
aaatagtga	tttaagtcta	ttcagcacct	ttagtaaagt	caaaanantc	aacatctcca	240
tatatcaaaa	acatttgcat	ctgtatcacc	aaacatgtaa	agttaattat	tttgttccat	300
ctttaacatg	aattatttta	tgtacattac	tttttagttc	aataaatttt	aacaatatit	360
aaaaattatc	taaattcata	aaagtatttc	ataaatttca	acatttaatt	attatgtaca	420
tataagggaa	gtccacgaaa	aaagttaaaa	naaaatgttt	tcataaagtt	caaagccaca	480
ttaccaatit	tagcaaaaaa	tcccaccaa	tcaaggggga	aggnatccaa	acnttccaaa	540
atcttatctg	cngccaaann	tt				562

<210> 9703

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9703

gttggttcatt	tgaagcaatt	tttctttttt	attattatac	tttaagtttt	agggtacatg	60
tgcacagtgt	gcaggttagt	tacatatgta	tacatgtgcc	atgotgggtc	gctgcaccca	120
ctaactcgtc	atctancatt	aggatatct	cccaatgcta	tccctcccc	tccccccacc	180
ccacaacagt	cccanagt	tgatgttccc	cttctgtgt	ccatgtgttc	tcattgttca	240
gttcccacct	atgaatgana	atatgcgggt	tttggttttt	tgttcttgog	atagtttact	300
ganaatgatg	atttccaatt	tcattccatg	ccctacaaag	gacatgaact	catcgttttt	360
tatggctgca	tantattcca	tgggtgtatat	gtgccacatt	ttcttaaatcc	aatctgtcat	420
tgttggtgac	ttgggttggt	tccaaatctt	tgctattgtg	aaaaatgccg	caataaacat	480
acacntncgt	ttntctttat	ancancatna	attaaaatcc	cttgggggtt	ataccatta	540
atgggaaagc	tgggtcnaat	ggtattccca				570

<210> 9704

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9704

ggtggtgata	gttacacaac	attatgaatg	tgtttaattc	cactgaactg	tgttcttaaa	60
aatggttgag	atggtaaaat	ttatgttcta	tgtattttac	cacaataaaa	tgaaattgat	120
agggaaaaga	tgaggcaagt	acatttgtaa	ggaaaacaga	aagcttggac	caattcttat	180
atataaagca	agtaatattt	catgtataat	cttaatctca	gatggtaggt	aaagaccact	240
gtaaaactaa	ccagtaccct	tgagtgtcac	aggcacattt	catttccaaa	gcttatgaga	300
ttgtaagtaa	ccagaaccac	ttgacaagat	acctgaataa	atgaagcgaa	ggatgtctga	360
taaacaagaa	cagaagaggg	cgtctttaac	aatgactcgt	aatggtgggt	tgccatgaaga	420
ttcntggcta	gcacctggaa	atgcnntatc	tctgtttata	nccaaaanat	tctgggggtt	480
ttcccgaaaa	aaccggaatc	cngaatttct	tggaacccc	cnttgaaaac	cccttnaaac	540
ctg						543

<210> 9705

<211> 574

<212> DNA

<213> Homo sapiens

002270 69462960

<400> 9705

acaaacaaga	ctagcttata	gcaaattctc	tatagctaag	ggtcaattta	aaatccttgg	60
cttatatctc	ccoctcactc	aatgactaca	tgatgcaaac	taattttatt	aacaccttaa	120
gcaaaacata	ctggaatttc	acaaaatgtn	caagatttca	atatttaagg	aactgggggtt	180
aggaagcaaa	agtggctttc	aggtcttcca	gtctttctct	caagtaataa	agctctgctg	240
tgaatattca	aagctattgg	gaaattaccg	gtagattttt	ctgttttttt	tttttcgggtt	300
ttccactatg	ttgtttctct	anatatgtaa	gcttactcta	ttaaccaaaa	tctcagcttg	360
accattcttg	ataagtacct	aatcgacatg	tnactttttt	tctgccttaa	atatgtataa	420
canggacana	acccttaaat	ctgatcaatt	attaattcct	gatttacaan	ttctatgggtg	480
anctaacaaa	acttatccat	gcctttattg	ccctttacta	acccaatttt	aaaaaggtng	540
gaattaancc	cncccaacca	attatccngt	cagt			574

<210> 9706

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9706

gtttttaaac	agctttactg	aggtataatt	gacatatcat	aacattcacc	tattttaagt	60
gtacagttta	attattttta	gtaaaatttt	agacttggtt	gaccatcatc	acaatcttgt	120
tttgaacat	ttctataatt	cctaanaaat	ccctcatgct	catcaatacc	accccttatt	180
cccactcccc	agctccagac	aacccttaat	tgacttactg	acactacaga	tttgtctttt	240
ctggatatca	taaaaataga	gtcatacaac	atgtgggttt	ttgtatctgt	cttctttcac	300
ttagattaat	gtgcttttgt	ggttcacctg	tgttgtagca	cgtatcaata	ttttaatttt	360
ttaggtgcta	gattctatta	aattgtatgg	atcactccca	tttgtttatt	ctttcatcag	420
ctgatanata	tttgangtgt	ttctacttta	tggactatta	tgataaaagc	tgctactaat	480
attcccattc	cagtnnttgt	tgganatagg	ttttttnccc	ttggaatnaa	caccaggaat	540
gaaattgccca	ggttatacgg	taa				563

<210> 9707

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9707

caaataattta	attggaagga	actacatctg	gaataagttt	taaaggaatc	catataaaaa	60
gaaaagcaaa	tccattagaa	attgatataa	acagttgatt	ttatctggaa	ccaagaatgt	120
gaatgaattg	gaacctanat	gtcctaacct	gtttctttgc	ataaaagcca	gttgaatttt	180
gaaatttata	tggcaattat	actttattac	tttacaataga	gctttgtttt	tagctaatat	240
tttagagaca	gattacccaa	aattacctaa	tttggttccc	acttcattcc	ttctcaaaaa	300
ccaaacataa	aacanaaggg	ggccagctgt	ggtggctcat	gcctgtaatc	ccaccacttt	360
gggaagccna	agaagggtgg	atcactaggt	caggattttg	anaccaccct	gaccaacatg	420
gtgaaacccc	gtctctacta	aaaatacnaa	aatccccccag	ntntggtggc	cctgcctggt	480
atcccccatt	acttaggang	ctnangcngg	aaaatccctt	ga		522

<210> 9708

<211> 512

<212> DNA



<213> Homo sapiens

<400> 9708

acaacaaaac	tttacatggt	tttattatac	attactgtta	ttgaaagcaa	actttataca	60
aaaagtttta	tacagataaa	aaaaatcctt	ggctaggcaa	agccgtttat	gtgtgtgcat	120
atacagaaac	acacatacat	acatatatac	acgggtat	acatcataat	tatacatatt	180
tataaatata	ttatttaaat	tatttttaca	tataccaaaa	caaggaggca	attataaaaag	240
caaataaaaa	atggatgaac	aattgaaacta	aatagtcact	aagtttataa	tgctacaaaa	300
ctattttttt	aatctagaaa	gtcattttct	taaaatatca	aaactaagat	ttcaatacat	360
cactgttgct	ttcatttttg	taagttctaa	catgtttaaa	aataaatatt	ttgacccaaa	420
acagataagc	naatcagaat	gatgactagc	ncaagctgaa	catgctgatg	tnaaattana	480
naatccctga	gtataaccaa	tatanattat	cn			512

<210> 9709

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9709

ccatttttat	ttgatgtttc	caaataataa	aaaatcaggg	antcttacat	caattatctc	60
aatgaaaac	atgcaaagca	attcngtgtn	tacaacaatc	atttttcccc	ttcagttctg	120
ctgctttata	caacagtggt	attgacaaaa	aattggatgg	catgtgcctg	ggtcagaaaa	180
tgtcatctgt	ttacaaaata	acatcatgca	gcacagtttc	tactttgtct	gcaagtcaat	240
tcacaaaaac	tacttatttt	ctgtttttta	tttgggaggg	acatggaact	gaaaaattta	300
gctgccaat	tttattcaac	tacccccacca	aaaaaaaaaa	aaaaaatcac	aatgacagct	360
cccnacactc	tgcaaatttt	ggagggttga	natagtaaac	actatttgtc	ntactccnca	420
gaatttacta	tttnacagaa	attaatctcc	nangggcctt			460

<210> 9710

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9710

gaataatatt	atgggggggg	gggctaagac	ntttaaatta	atattgtttt	cacatcaagg	60
aaccatcgtc	agaacaaagt	tcccttgtaa	tggtcggccc	tgtcaatgaa	attttcatta	120
ggatgataat	gtgcaaggag	cacggagaga	aaggacaagg	cagtgaacac	atgcattcca	180
gtggaggggg	aacgaggctg	atgtgcaaca	caactgagga	aaatttatag	attaaactat	240
tcaaaaactgc	taagcagcct	cctgtaccac	ataagtccag	tanttctaag	aaaatacaga	300
tatggtanaa	aaagtnanaa	aattttcacc	acaaaaccaa	tagttaacta	ctaaccnaga	360
aagttatnca	caaaatatat	ctctcaatac	agtgatcaca	cctcatctta	ntcaaccgac	420
tcnatggccg	gancn					435

<210> 9711

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9711

agagacagtg	aaagattttta	tttttttttt	tacttttcac	caaacacacc	cttttctaaa	60
aaacataaaa	gcatgcacat	cgacgggatt	cttataaaga	aaaattaata	actaagctgt	120
aatcagtaa	taatacaaac	aaaagtttaa	atgatatgtg	aaaagactta	caggtaggta	180
tacggntctt	aatttttagaa	aataactcaa	gtcagtatca	atacaggtta	aggagaagct	240
tctaattttc	cnaacatttt	gatacaaaat	ttttttcaac	gactgtnttt	tatanacctt	300
ttgtganaaa	attagtatag	ttctatgaaa	cctaacattc	nantgatctt	atgcnggtca	360
ggntaccttg	tttaaatgag	ttagaaccnc	at			392

<210> 9712

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9712

gcatcttaag	acaaatattc	ttttatttct	gttaaaactga	atatacaatt	gttccctagg	60
caaccaactt	ttgcttataa	ctacaattta	atttcacggt	gacaaaacac	agtgaaaaga	120
caactttgtg	aagatctaata	tacaataata	aataaaaata	tttatacaag	ggtttttttt	180
tcttgacttt	tctatagggg	tcatattcat	taaaaagccc	aaaaggntac	ctttgcctta	240
acccttctgt	agtacaggaa	tgattcttan	atttgtttcc	ttttgttata	aaancaaata	300
ttgttttttt	aaaatanccct	gaaatnaaag	gttatattgt	accccaccag	ctaacacact	360
aantggatna	caaactattc	tctcggtaat	ttatatanca	aaacatctaa	taaattggta	420
tggtatcaag	gnataggtaa	cattacttcc	nccncattta	nttttacttc	aaagtgttaa	480
ctttgttaaa	ctaatanan	tggttcctga	nggggt			516

<210> 9713

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9713

aagaaaagct	tgtccaaggg	cattcaaatt	taatggcttt	tatataatac	ttggtgtagt	60
gcctcgtggc	tgctctgtg	agccagaaat	aaaggaagct	catggattcc	ccaaaaatga	120
aatgccactt	tttccctcat	catggatgac	tttgtaana	tgaaccctt	ttacaggaaa	180
ggggttacac	aggctgctga	taccagtcta	nanagggcac	ccaccagcca	aggctgtgtt	240
ctaacttagg	tgcatacca	tcggccanaa	aaaccatgtn	tccataaagg	ctgtgaanct	300
aactanttta	tctgtaattt	ggtoctantt	gcttccctta	ttttatgtcg	tttttttttt	360
tccttaaata	aatctgttca	aataacctcc	ttatnaatcc	tcccaaata	atgttctttna	420
nagaaaacan	tcaanctaaa	cancaatgat	nacttttatg	gttaaa		466

<210> 9714

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9714

ataccttatt	gaaaganggt	ttaataaata	taattattaa	ataaatgtta	agacttttaa	60
tactaaccce	agaaaaattt	aaaaatacaa	attcagtaag	acttttgctc	taacaacaat	120

ttttcaaaac	gaatcaacaa	caaaaaagta	tccagtgttt	cttttcttat	gaagattatt	180
aataaaacgc	agtattggta	agcacatttt	aacagtatgc	ttttcttttg	tagggaaaagg	240
agatatggct	atgtctaaca	tcgtgggatc	caatgtgttt	gatatgttgt	gccttgggtat	300
tccatggttt	attaaaactg	catttataaa	tggatcagct	cctgcagaag	taaacagcag	360
anggactaac	ttacataacc	atctctctca	acatttcaat	tatttttctt	tttttagcag	420
ttcacttcaa	tggctggaaa	ctaaacagaa	agttgggaat	agtctgccta	ttatcatact	480
tggggcttgc	tacattatca	gttctatatg	aacttggaat	tatttggaat	aataaaataa	540
ngggnggttg	anggtgaaaa	tattaaaatt				570

<210> 9715

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9715

cacaagggat	aaatagaact	ttatttttaa	taaacatttg	cactctgtac	acagccccag	60
canaagcagg	gctcagtcgt	cagctgtctt	gcgcacatca	aagctgccac	agggtcctcg	120
cagcagctct	gccagtagcg	caagcagctg	cccgtgctcc	tcctgtacgc	tgggggggaag	180
tgcancacgc	tcgtctgcga	ggctccgctc	caccatgcgg	cccaggggccc	gocgcagctc	240
cttcagcagc	cgcacggtag	gcgagtcacc	ctccagccgc	agcaggtcac	tgctgcctcan	300
tgagatgggtg	gcccggcgcc	cgatcatcacg	gatgtgcacg	tcccgcgtcg	tcagcagcag	360
cacagctagc	gggtgcacct	gaagaagagt	cccggacgaa	anacgctgcc	attggacttg	420
actgccatga	aatacgtcag	ccatcggtc	cgtaaccgtg	ttgtaancgg	ttcgttggtc	480
ctgtccacca	ggcccaagct	cttcattttc	ttgcaggcca	aggttccncc	ttattctcac	540
ctctgctttt	gcggggccctt	tgggcaacaa	angtcttggg	ggc		583

<210> 9716

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9716

atatgcacca	atacctctct	ttaatatata	aagctctaca	acaataacct	ctaataattt	60
tacaattaaa	ttaagtccat	acttctatac	tactttggtc	tcaacatttt	taaaacatca	120
attaattttg	aaaattttaca	atttaacaac	atgatcctat	caataacaag	cacattttgt	180
agtgaattaa	agacacattc	aaccatgcaa	tccagtgttc	aataccttaa	tgataaataa	240
caatgctgat	tgacttttat	tttgaaaaat	cattgaaaac	tggaataatc	atctgagact	300
cacagtgatc	acaaacatgc	agaaaaaagc	atacaattct	attcttcctg	aaggaatggt	360
acaaaatgcc	cactttttta	tatagggtca	atatgccaaa	ttacttata	ttttcaatcc	420
atcatcttct	aacatttgtc	acttaaaatt	ttcttaaagt	acaaatgttc	ctgttaagtt	480
gtnacagaaa	atgaaacccc	actccttcng	tccttaaaaa	ctccgtccca	gtccccccct	540
aatanccgcc	tttaattaaa	atatgactcc	ccgtggaaaa	atnn		584

<210> 9717

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9717

gagcacatac	atttccgctt	tattcaaata	ttgcataaat	acagagcagt	tgggcacatc	60
cattctaagg	nactgttctg	gtttgaatgc	aattccgcaa	ganagaaaag	agaagccatt	120
acattctgta	tttttcatct	ctacattcag	actcctccta	tattatatgt	ttattgctac	180
tgggatatca	atttgagccc	canacttata	gcagcatcat	atgttgacct	ggatgacaag	240
aattaaagat	acatcctggg	tctagcaatt	ggtataattg	gcacttaatt	acaaactctc	300
ttgcattatt	ctccacctgt	ttcccaactc	ttgtttaact	aaaaatatta	taaaatcttt	360
atgagcctga	tccatgaatt	atattttctt	actagcttcc	actaagccta	naacaggact	420
agttaggcac	atagtaaata	ccccccaaag	tatttatatc	actctcgana	acttcaatgg	480
aataaagact	atacttttcc	taattgtant	tcnaggaaag	gatgactgaa	cntcttccn	540
aanggaaaat	ncctgaattt	tt				562

<210> 9718

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9718

ggtaaaaaca	gaaaatttta	atTTTTtatat	agttttatta	acaagcacac	agagaaaacgc	60
tgatatccct	acatgttgaa	agtgtcacga	taatattctg	aaaagtacaa	aattcaaatg	120
tctaaatttt	acatggtaat	gcaaaaagaaa	aaattactaa	taacaagtat	atTTTTattaa	180
aaacttcatt	tatcatgaaa	attagtgaga	ttacaaagat	taaactataa	ctgaatttca	240
taccctaattg	ggtcaagtcc	ctggtctagg	agcattagag	aggactctct	gagcttctgc	300
agcaacttcc	ttagctcttc	cttagaaaaat	accaggtaca	gtttgtggcg	ctcagaggat	360
accatatctg	ctaactgtag	gcatttcctga	tactgaccag	tactgtgcaa	tatcgtatga	420
agcagaaaac	caacattggc	ngacaaaagct	ttctcagtaa	gaacatttga	tgtgttcctt	480
cctggtctcc	tttggnatcc	tctctaacat	ccaccatccc	ccctccntca	anaaacaaca	540
agaaattttt	nattttcncc	ctcccatctg	cagtt			575

<210> 9719

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9719

ctatttattt	atcttattta	ttatccgtct	ctcccagcta	ggatgtnagc	ctcgtgaaag	60
tggangaagg	gggcttattt	ctgaatctcc	aaatctanaa	tggtacctgc	cacacaaata	120
tgtgctccat	aaacaaatgc	actttttctt	ttctgcactc	cctgggttgc	aggctgcatg	180
cnaagcacgt	cctcaanggc	cagggatctg	tctcaagcct	ttttgaaaac	cacccctttc	240
ctacgtgccc	cacacccagc	tctagcaggg	tgccctcctg	cccctgagcc	tgccctcatc	300
atgcccattg	ccnaagcctc	angactgaat	cacatttttg	gaatcttccc	aaggataacc	360
aatnngcatc	attattctac	agcgatgctc	atgtataatt	atgattatta	tcctatatga	420
acnatccatt	gctgctgtgt	aattccaatg	ggtaattact	ggcctctgaa	gattgaaactg	480
ggcttggann	gtntttcncc	gttttctctg	aaactgccc	ctggaacaca	ancaggttng	540

<210> 9720

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9720

acattttacaa	atatttaaatt	tattataact	aaaatgaatt	taattgttct	canattttggc	60
caccttatag	ctccgtttta	ggaggggatt	tgttaaaaac	aaaaatgcat	tataacttgg	120
tcaaattact	ttcacattaa	ggaaaaaaac	ttctaaaaag	gaaaacaaga	aaagcaactc	180
ttcagtttca	cataattaaa	agaacaggag	aaagcacgca	agctacatat	agctaaattt	240
acgaaaccaa	ccaaagccag	ggggatttct	cttctgatta	tgtgtcataa	aaaggtccac	300
tgtcttatat	acacatgtat	ataatgttac	attccatcac	tgtaaaaagt	cccctttgcc	360
ccctccccc	aaaaagtttc	agtctagtct	ccaaacttgg	aangcggcgc	tcgctcctgc	420
tgccggtgca	attcgttctc	ggtcancaac	tggaagttct	cggcgcgcac	cggccaactc	480
caactccact	cccgcaaaag	nccgttttcc	cacccaacng	nttgtctcaa	cgaancngg	540
tnttctctc	cccctgcccc	aaaggnc				567

<210> 9721

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9721

acgttttcatt	atagttttta	atttgtatac	tttttgttta	ctcataaggc	agaacacgat	60
tttaaataata	aacacacata	cataaacata	catatgtaca	catttttgatt	actcatgagg	120
caaaacatgt	tcatatata	ttgtgtgtgt	gtatttttnc	ccattttgttt	tggcatttcc	180
cttaaacagg	atgttaaaaag	ataaaagaaat	agatttagtc	tatttttctg	ctanananag	240
gggcctcaca	cttcttgttg	atttgcaa	gcccttctcc	tcttttgaag	tataagaaat	300
atcaacttct	ttattttattg	tggtaaata	acataacata	aaagtgatga	ttttaaccac	360
atttaa	atgttctgt	ggcattaa	acattcacac	tggtgagcac	ccataacccat	420
catccatctc	canaactttt	taccttccca	aactaaaact	ccggacccac	taaacactca	480
ctcctccatt	gnccnctccc	cccagccctt	gggaaccacc	aatcctat	cttgggtctct	540
gtgaaactga	acngcnccaa	aatcccccat	ataantta			578

<210> 9722

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9722

aagaattt	gt accagtaa	at ttattcca	ag taagactt	gt gtgcacac	ac caggcagata	60
atttccac	ac aaacaccaa	a cattgtag	ta aaactagt	ta acactttg	gc catgaaactc	120
aaagatact	tt gaaaaacct	c togatagc	ac tttgagtc	ac ttaattct	ga caaatattaa	180
tatgtcatcc	at atgcttgcc	c agttata	aatt ttacaata	ta attgtat	ttt tcatgtact	240
tattattcat	tatacttact	at atatata	ttt aaaacat	ctt tgctgaa	att ctcttatccc	300
aaaaataatt	tttcagtaac	tc tcaaaa	ata ccacat	gtac ctcttag	cag gctattccaa	360
tatcaaaatt	ctttttcttc	a aagtaaca	ag ttctcaat	cc acaccatt	cc tgatcacaga	420
tataactgat	atgcagtttt	t ataaacag	ct ctttacnc	ctt ggtnc	caatt ttagcngggc	480
aaccancctt	ccctgatata	c ccaaattt	nc ttggcac	ana atcntcc	ata gctttggg	538

<210> 9723

<211> 569  
<212> DNA  
<213> Homo sapiens

<400> 9723

gcctgttgta	naatattggt	tattttctggg	cataaattgt	tgaatgatgc	aaaacaaatt	60
ttatgacaca	aattagtatt	gcttgacaca	ataaaaaaag	gttaattatt	taatgatata	120
tcttcattta	ngttcccttg	attggggaca	tgggtaacta	acttaacaa	actaccctac	180
ttgacataaa	acttataaca	agggaaaaaa	gttaacaact	taaagagata	ataaaatcaa	240
agcctattat	gttattaaaa	agattcacga	gttactacca	ctactattac	tagttaatat	300
ttattgaatt	actctgtgct	tggaactgtt	ctatgcattt	tacttgtgtt	atctcatttg	360
atgctcacia	caaccttgtg	aggtaggtat	tattgttatc	atcatcatcc	ccattttaaa	420
aggaagaaat	tgangcccca	agaaaatagg	taccttgccc	aagggtccnc	actgaaaatg	480
gtaggtttgg	aattgaccna	aacntctgac	cagatttttna	nactaantcc	ggaattttaaa	540
ttggttngct	cctattttaca	atcctatac				569

<210> 9724  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 9724

gtggaatgtc	attttctctt	atagaattat	aggcaanatt	tctccaataa	aaacttaactt	60
aagccagtta	taaaactata	acttcacatc	aaaattttaaa	aaagttaaaa	aatgtgtttg	120
aatatgtaca	tatcacacag	aagtgggtga	atgttcttgc	anattgtgtt	gctgggtcana	180
ntccagtcta	ctttccactt	ttaaaaactgg	aataggctga	gtcttctgat	cttgotgtan	240
attaagttct	gatgcagggt	ggaaanattga	tgangcagtt	gttaacagct	gaatctctgt	300
gcatgcttct	tcanattcag	tttttatcct	cacacattgg	gagtcaactt	ctaattctcg	360
ctttccagtt	aaaccacagt	ccatgttana	attgctttct	gtgttttgag	tggcttccac	420
aacanggtgg	tnctgtttta	gccttatatg	ccangctaaa	ctgcacccgc	cnaaactgtt	480
ttgaactgat	gaatgacttt	ctaggganga	aattaaatat	cattgtcccc	aactgaaatc	540
ncacntaaca	aatgcctccc	cccnct				566

<210> 9725  
<211> 535  
<212> DNA  
<213> Homo sapiens

<400> 9725

gctgcaagtg	tttattctat	ttagaagtct	acaaatttga	gcttttaaga	aagattcaca	60
aaatattcat	tcaaaaccac	atttttggct	tatcaaattt	caaatatatt	ttactgtgct	120
gaacaatata	ttctaagtct	gtctaaaaca	cagctaaatt	atttttcttt	atttgtttat	180
acacattcgg	taattttctga	aaagcaagat	ttaaaaaatat	ttattaacaa	actaccaat	240
tacaatgact	gttctcccat	acacgcaact	atttttctgta	gctgtatctt	cttacctcat	300
tccactttta	ctctgtatac	cgtattgatt	tgtgatgana	tgattttatta	tganaactct	360
tagggagttc	tcatcttcca	tttctcatca	attcaaacag	caacaccttt	cacaanataa	420
cattaattcc	cttggcangg	caaaaaactt	aagtttgggt	aaaaagcact	cncgtgaaaa	480
cattttttaaa	tttataggct	ctnttaaatn	ttttccnnga	aaacgnatga	ctccc	535

09629469-072300

<210> 9726  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 9726  
ggggtagagt tctgtattan tcnaggtaaa tatactgtct tgaggatggg gatgcaaaca 60  
gtgctctgta gtgttgtana aatcggattt tgaaattatc agtacaaaaa taacagcttg 120  
attaaaatta atttgtatct gataattgtt tacaagttat gaaattcagt gatgatttac 180  
aaaatccaaa cagacaatgg atacctaattg ccactgagct gtaaaacaaa agttatgctg 240  
acatctagtg gtaacatata aaaaatctat gctttaccca attttgatga tatcatttct 300  
cttcacaaat ttcactcctt tggtgatata ctttcctgaa ctcttcacca agcagatcaa 360  
tatcatcctc ttttttaaat actccttttag ggagatacct antaagtttg tacatgctct 420  
ttaagaaatt ttagcccttc ctctccata attgcattaa taaatccctg gcgcctttgc 480  
tgcactgcca ctctccaat tcncttnttt gtcncaagg aatntttggn gaaacncctc 540  
catnaatttt tcccaa 556

<210> 9727  
<211> 598  
<212> DNA  
<213> Homo sapiens

<400> 9727  
ggtgaacgaa attttttatt tacacactgt atctagaagc agatacataa attcattatac 60  
aattaatttc caaaaatgtg caagaaatta ctataatttg ttacaaaacc aaaacacgta 120  
ttaaaatcaa tggacttttg ataattcatt ctgtggtgtt ctgagtacaa atgggtacaca 180  
cctgatttga aacatacaga aaaagtgtna actaccgcaa tctgaattgc aagtattaat 240  
ttcatggcac tccaacgact atgaaatttc tttcacccaa catgtnaata cttgttacaa 300  
aattctataa gaatttttca taatctctgg atgtagagtt tggatcactt ttcagaaaca 360  
gcaactacac acttcgccat gttatgactg attaataaaa agaattgttn taaaaacccn 420  
tccttacngg attaaaaaag tttttaaaga aancntatct gtgantggca atgttncccc 480  
ccttttgaaa ttttaaatct ttttcggaac cngggtttgt tccctattaa aatttccaaa 540  
aaaccgtccn atggnggggg tggtggttcc ctttggnaat tnaaaacccc ctttagnn 598

<210> 9728  
<211> 381  
<212> DNA  
<213> Homo sapiens

<400> 9728  
cccacctatg ccctttccag ggcagtttaa ttggtatcat ttgtaaaagg tcttttccat 60  
caccocccaaa gcctttgcat tccctttcca anaagggtggc tgtttactgg ttttgcccc 120  
atgtgcaaca gtaggccttg gtatgatgct gccataaac tcccatgtga cactccaggt 180  
gacatccaag tgcaagtcta tgttcagctc tggacancan gggggaaggt gaggaaantc 240  
angtctgtaa attgaantct ggcaggggccc tgnctggctg gaaatgtgtg ggcaagggtga 300  
gcangcccca tgtgcacccc anctccattg cccactgatt tggctnaacc ccantttggt 360  
tntggtcaaa tttaaangtcn t 381

009220" 6942960

<210> 9729  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 9729  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
nnnnnnnnnn n 551

<210> 9730  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 9730  
gttttaccat taacatttat tgatgggatg gataaatata gattgagaaa catactigac 60  
agcaagatat caaactgata gccagactat aaaatgtata catccttttt aaattttttg 120  
aattttttta caaagagccc ttactataat ggtcacttac ctctatcat tcacataaca 180  
gcagtagata tcccaggggt agcatccaga gctgagggtc cccaaggaag acagaggcaa 240  
tggcagaata atatgctgag aaaggactct taagaagcaa tacnaagaga acagacnaaa 300  
atctcncncn aaaattgtac ctgagtgcaca aattggtaaa ntgttttact ttnttttttc 360  
ctttcc 366

<210> 9731  
<211> 521  
<212> DNA  
<213> Homo sapiens

<400> 9731  
aagccaaagt ataatttatt ggaaanatac agtttacata acagcanana aggntgatga 60  
accagattca gaaagacaca gggaacactt tagcttctca tcttcaatgt gaataaacct 120  
caatcatttt ctttgcatta ttcaaanaa ttcattctaat tagcttagtt tgggtctcat 180  
ccttattaaa aagttaaggg aagtagctga caatctcacc aaagctctat acaattgcan 240  
atganttaat tctctaaaag ttaactgagg tgctaccact agaaaaaaag aaatggaggc 300  
aagacagata aaatcnagan atggctntat tgatgaaaca gtatgtctta aattttccta 360  
tgctccnaaa tagggaaatt aacagctacc ttaaattaga aataactaag tgaacagttt 420  
cctcnggtnc atttagtgaa gcatttgta gantcctttc tcaatttcct cccattatt 480  
gttctattcc aattctcnc tcnaaaaaaa nncactttta a 521

003220.69462960



<210> 9732  
<211> 584  
<212> DNA  
<213> Homo sapiens

<400> 9732  
cttttaagc agaaatgtct ttattgtttg aagcatgaca aaataaaatt gataggacat 60  
ttcattttctt acttagtctt ctcaatgggg ttataaaaat acaatgccac ttagtttttg 120  
taagctcttg aaaatgtcca gaagctcaca cttagtatga tattaaaagg cacttataac 180  
acacaataag atacttagaa acccatctca tagatacaat tgaaatttct ttgagaaaaa 240  
tttctaaata tagaaataaa taggacggca ctatttcttc ttttccaaaa cacagaatag 300  
cattttcccc atgttaccta tacacaccat aaatgtggac acctcctccc atttttgttc 360  
ttgatacagg ttgataatca agctgaaatt aatttgcttg cttttctcna tttaatctca 420  
atttggttta aaataaagca aaattcctaa ttgttttnc aggatcttta aaatacccg 480  
cttattttcca ttttggtttt aaatcccaat cccttaatta ggaaaataag angccnaant 540  
ttaaaaattc ttctattttac tgcccaatcc cccaagcaca atnt 584

<210> 9733  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 9733  
gaaactggaa taagtgttta ttttctatta ataaaaatga attgtgacaa aagtggactc 60  
tggtctcccc tccccctac ccctctggga taaaaatttt ccagcattgc caggagcttt 120  
caggtacaca ttaaagaata aaatgaagtt aagcagctgg agtataggat agtatttgat 180  
tttcaagatc acccaaagct gcactatcgt cccaaagctg accaagtaga ataaaaagaa 240  
aaaaaaaaaa aacaacccat ggcgcaaanat anacatttgc ttgatctgct ggctcagggc 300  
caaatgttta atttgcttct ccaaagtcac tcatcttcaa aantctgatt ctgggaaact 360  
gatgccncta ccctaaaacc ccnctgacca tnttattgtg catcagttnc cncctgtcca 420  
ntaagcattt atcc 434

<210> 9734  
<211> 519  
<212> DNA  
<213> Homo sapiens

<400> 9734  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 519

09629469.072300

<210> 9735  
<211> 353  
<212> DNA  
<213> Homo sapiens

<400> 9735  
aagcatttcc ttcccttggc ataaggaatc ccaccccttg aatcagccat ttttccaaag 60  
agccagggtt cctttcagtg cgaatgttgt aagaaaaacc aagatctgag tcctagggtgc 120  
tactaagtct tagttacatt ttgggtgact gcgcttaaca caccattact ttataaaata 180  
caaacaagag agatagttca aataaaatct aaactcataa ttacttggtg gtaagacgac 240  
tcatacgccct taaactctcc tcaaatatat ttacttgcca gttgatagaa naacctggat 300  
ccccaccca attcctaatt cctaaatttt nccccctccc cctnancnn gct 353

<210> 9736  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 9736  
attttacaaa tccaatattt attttatctt gtatgtacaa aaagtaaact ccaagtgaac 60  
atcaaatcaa atctaatact tttggccaca tgactgggtg ttctttatct catagttaca 120  
atgaatcata taaactgtag actgccacta ccacgatact tctgtgacac agaaggaaatg 180  
tcctatttgc ctatctatct gaggaatgtt aaatagagaa aaatagatta taaaacaacc 240  
tgagggtcac aggattctga nataatccct ctgttaaaaa acatctgaac agcaaatgtc 300  
caatctgtaa taaaatagtt aaaggtccaa gtcaagtcca cttctacttg gctggcccag 360  
cacaagaaat ctaacagcac tttgtaatca ttttgctttt ctaattttcc cggaagacat 420  
gggccattga catataagga aaaaaaacna aaacaaaaaa cgantaagtt agttgtgtna 480  
tccnaaccng tganttccaa agaaaanttg ccggg 515

<210> 9737  
<211> 466  
<212> DNA  
<213> Homo sapiens

<400> 9737  
ataaaacaat ttccatgttt accaaatgca acacatttcc ttttctatta agaanaaaaa 60  
gccggttgca acccactaaa gtgatttgat ggccaaagaa taggtagcaa ttgcatTTTT 120  
gaaaaatact tatttaaata gaaatttgct agacatgtag aaaccagtca cattgtagct 180  
ctggcagatt tctgcaggag atccagtgc acatttcatg gtccctagaaa tggttttcct 240  
tactctttga atctttcacg gttgatgagg tgggtgttgt gatgaaggcc aagggaanan 300  
agtggagaaa atgggtgatgg gagganttta ggaggccaag tcttaattct gctcaggcag 360  
aaaacagttg aantgtctgt gatgcattgt ccanacacga atgagacacn nacctggtc 420  
tatggcggct tataatccaa ggtgttgctt cntattaaac ngganc 466

<210> 9738  
<211> 520  
<212> DNA  
<213> Homo sapiens

09629459.072800

<400> 9738

gaagtttggg	gatgttttaa	tgaccaagt	tagggaaaag	gatgaggaga	gatcatgctg	60
ttagcaggct	ctggggatcc	tatggtcaca	tggaagagg	gattcctcaa	caatgagggg	120
tgtggtcatc	tccataaatt	gcagacagac	attgaggtca	gggagacatc	ttcccacact	180
tgcaaatct	tcatanaaca	tggtggaagt	ggatggacaa	agatgtatgg	tggtggccat	240
ttattattac	cttgggggaa	atgccagatg	anctgatact	gatcacgggc	agattttgga	300
aacgancgtg	ggatancggg	gcaaccanan	ggtgctctgg	tattcattgt	ctancaccaa	360
gatgctcana	tcaaattggt	tgccgtcctt	gaaanaacac	attgtnggca	tctcccctca	420
cacttccagg	ccccacacac	ntggctgtcn	atnaccaaac	aatggggcaa	atnccccccc	480
aaaatggaaa	ggcaaattct	gaatttcnnc	ttcccccccn			520

<210> 9739

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9739

gcactactta	ccagaggttt	ttatttggcc	tctaattctc	atcccagcac	agcccagagaa	60
ttcagcaaat	gtctttaggc	aagtccaaca	aagtatcgag	gtcagtttct	cacttctctt	120
tccttataaa	aatcaagcct	ctatgacttt	ttgtctttcc	agtgtgagat	ggcaaaaaggc	180
ttcattgggt	tctctgcctc	ttagtagcaa	tcctcttcct	gatccctttg	tttgaattct	240
tcttttattg	ctctatacct	agaatttaaa	aatgtcctgt	cttttctctc	cagtaacaga	300
cctgacctgt	tgcagggtgg	ggagtctgcc	actganaaac	agcaagaagg	tactgggttc	360
ctcccccttt	tttggcagtc	tgggctggct	acccttcccc	ccatcttggc	anaaaaaatgg	420
tttctgacct	tnctctggga	tgggaaatta	ggaatnaaga	aaaggaaaag	cccacttttt	480
tgctactgcc	aaaattgcat	tgcncncttt	ggantntn			518

<210> 9740

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9740

agtgttgant	acattttattg	aagantctct	ccctgtataa	gcccattgta	aangtctcag	60
cactaacaca	agantcnaaa	aggaagccca	catctctctt	tcatacagga	tttgctgcaa	120
tactatattc	ttccaaccag	tgagtaatct	caaagtgtga	tgggtgagtt	ttacatantc	180
ttctttgttt	cgaatccaat	tggctgattt	gttaccattc	tagaggctga	actgtatgaa	240
gacctcaact	accattcaca	aggtgcagtt	aananaactt	tggacagttc	acagtgtcaa	300
caaagtctnc	aggctccgac	caagtataac	cacatccttt	ggaaatcctt	ccattttttgc	360
aattttcaaaa	catcctaact	tgctgtnaaa	ttcccanaat	tccttttatcc	tccgggtcccc	420
ctccccaaaa	aaccnccccg	ggaaccttta	ccctccattn	aaaanaggaa	ggcaaccctn	480
cttntctttg	gccncccttg	ggtcagttac	tttttgggtga	atntccccct	tttccaaaaa	540
gggaatttnc	cgggaa					556

<210> 9741

<211> 487

<212> DNA

09629469.072800

<213> Homo sapiens

<400> 9741

gcaagttaaa	ttacatctat	tatataaaga	gatcctataa	cttgatacga	aaaacaaagc	60
aactccaaca	gataacagaa	gggcaaaaagg	acaggaacat	ctgatcaaag	aaacacagct	120
accgatagca	cacaaatatt	caacctcatt	aataatcaaa	ggattaggat	gcacttcttg	180
cttattcaat	aaagttaata	atttctaatt	tttctacttt	tcaaattgtac	tcaaattgtgc	240
tatttttagt	aataaaaaaac	tgagtaatta	aaaaaacata	gaaagtatga	aaatttctgc	300
caatgcagaa	atcataaaca	gcattaaaat	gaatcaacac	ttgtatgggc	agtaagggtc	360
agaccctaa	aanccaattc	attttgcctt	ggttcctgan	ttttattatg	gggattgtcn	420
ataaaggana	aagttgttcc	tgattttacat	gctgacaatc	ttccangtat	anggggggtt	480
ttntttt						487

<210> 9742

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9742

gttttttttg	gtcatactac	atttcacttt	attattatta	acatttatca	tacacggggt	60
actattccaa	tctttcatgc	agacaaaaat	aaacaatata	aaatacataa	tgcactttga	120
taattttaac	catacataaa	atatgggagt	aatgggaagc	tatgtttacat	ggatatttta	180
caaaggaaaa	aaagatgact	tttataataa	cacatccaga	tgaaatttat	cattaaaattt	240
tggatttcat	atgatgttaa	gtatggatat	attcaaaaca	attactattt	atagaaccaa	300
tttgatattt	tgatcattta	aataatgaat	actatgtnaa	tgagtactta	taaaaaatatt	360
tttaggcaaa	aagctctgtt	ctactcattt	acttgccagt	tacaaaaata	tatattcntc	420
tgaaactcna	ataaatttgc	ttgangnntt	agatattcca	attccaatgt	ttattttcna	480
aagcgtccta	ncca					494

<210> 9743

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9743

anacagagtc	tccctctgtt	gcctaggctg	gagtgtantg	gtgcaatctc	agctcactgc	60
aacctccacc	tcccaggttc	aagcaattct	cgtgcctcag	cctcccaagt	agctaggaat	120
acaggatatgc	accaccacac	ccagctaatt	tttgtgtttt	tagtaaaana	cagggtttca	180
ccatattggc	caggctgggt	ttgagctcct	gacctcaagt	ggtccaccog	ccttggcctc	240
ccaaagtgc	ggaattataa	gcatgagcca	cgctaccag	ccacccttag	gaaactttaa	300
tgccacaaat	gtattatata	tctgtttatg	tactatggcc	ctttgaaggg	tcaaaaaacca	360
ttgttatatt	caagattttt	tttcaccttt	caagantcaa	catttgccct	ccttgcggtag	420
tatctcccat	tgaaaaatgc	atgctgtanc	gcatgttaca	atatccanan	tatattttaa	480
ggtaaaaaca	ccaagggtgga	aaaanantat	ttacantgcg	ctaacacttt	tcn	534

<210> 9744

<211> 530

<212> DNA

09629459.07300

<213> Homo sapiens

<400> 9744

cataaataag	tattataact	ttattaaaat	gaaaagacaa	tattcaaaat	aatgcaacaa	60
aatgaataaa	atcctttgtc	caatactgta	cacataatgc	agaaatcagt	gcatttttct	120
taagcatgtt	ttaacottca	tttagttcat	actaaaatat	aataagcttt	aaatagctca	180
aataatattc	agcagtttaa	actgtaaaca	gcttgtttaa	ctgttaanag	aacattgcag	240
taatgtacct	ctgttagtga	gcaccttctc	ttctgtgctt	atctcttcaa	gataaataca	300
tggaaggatg	tgaaaatcgg	aacaccaact	atgtgtctca	ctgcatctaa	gtgaagcacc	360
acagctgtga	gagttttcna	agcaaaaana	ngctgatgtg	acctccggaa	ttcanacata	420
ctgagctatg	ggtcgnaaat	gttttactta	aaaagccaac	aatcccccg	aaatctgaat	480
gggaacngcc	ncccnngggcn	gcctgtgttg	tttgtttatt	aaaaccnccn		530

<210> 9745

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9745

ccaaatacaa	ctttggaatt	agtcacaaaa	aatcaacata	tattctcaga	aattgtacca	60
tttccttttg	tctacaatcc	acgctatagg	aggttcaata	taatattaaa	taatgtacca	120
tttacccctaa	aagtaggttc	tagaaaactg	actattagga	ttgaataaca	aggctttaat	180
ggctcaattt	tcttatgatt	atacaaacat	ataaatcttg	aaaaggtaac	gccatttagt	240
aaaatccata	aaaataacag	ttttgccaca	gtgcaaanaa	aagttcattc	agtttgattc	300
cccatgccct	cgacaagcag	ctttctgatt	anagctggaa	aacacaggct	gggtgcagtg	360
gcnaccccg	antcccanct	actggggagg	ctgaagtgga	aggatcactt	naccaggaa	420
tttccgaaca	tctgggcaca	taccaaacc	ctgtctcttt	tttaacttgg	aanaataaa	480
ntctntactt	cntnccttga	aacntgaatt	ttctacgaaa	atttgtnaaa	attactttta	540
aat						543

<210> 9746

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9746

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnn						545

<210> 9747

<211> 518  
 <212> DNA  
 <213> Homo sapiens

<400> 9747  
 gttttttgag acagtctcgc tttgtcacc aggctggagt gcagtggcac aaccttggct 60  
 cactgcaacc tccgcctcct gggttcaagt gattctcgtg cctcccaggt agctgggatt 120  
 acaggtgtgc accaccatgc ccagctaatt tttatatatt tagtaaanat ggggttttgc 180  
 catgttggcc aaactggttt agaactcctg gcctcaaatt gtctgcccac cttggcatcc 240  
 caaaatgctg ggattacagg cataagccac cgcgccagc caacacttaa ctgatttctt 300  
 atttcctaatt aaaaaggatc tgtttgggtat cctataatac tgatgcacct tgatttgctc 360  
 cgttcaccca nnaattcttc tgaaaacnct gttgttcctg tgggtggctaa tgttccccca 420  
 aatggaagc ccctntggcc anggaaaatt taaattaaaa ccnntaaat ttaaaaaatt 480  
 ccttaaattc gnaaccaatn acaccaaant tccttttt 518

<210> 9748  
 <211> 513  
 <212> DNA  
 <213> Homo sapiens

<400> 9748  
 agacacaaac atctagttta tttttttctga ctgtaaccaa agtcagcaaa agaaacaaca 60  
 aaacttcagt gccctaaaaa tcctcctgga ttcnatgaca acacatcaat ggccggggcac 120  
 agggttggat tccttttatg aaatcacctt ataatctctc atcatcccag gacagtgcct 180  
 tttgggactg catgaatctt taatagctac accacatttt ctcatccttt aagttatgac 240  
 agacaggtta tctctctcca agagcatcag gtagatgct ctttactct taaaaactgt 300  
 caggtggagg gagaatcacg acatcattcn taaataactg tggantctgg gatgctggct 360  
 gaaagcatct ccangaaaga ctggagggcg antttgctaa agggctgctc actgctcntt 420  
 tcatgcatg ccccttttct ccttttgggt nggaatttna angaccnttt ttccccaaaa 480  
 ttaaaacccc cntttaaacc canccctgcc ctt 513

<210> 9749  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<400> 9749  
 gagtattcca gcattattta tttgatcaga ntaaaataca cttcccatca ctacaaactg 60  
 agcacaacta cagttgtcta cacattcata tttttgacgt gccaacattt tgcattctac 120  
 atgaaacatt tggttttaaac aaaatcttaa gaagtctcta ttttgtttcc catcttccct 180  
 cctgtcctct cccatcctcc aaagatgttt tatattaact gctatgagat ttatttgcg 240  
 gtcacgtnat acggaggaca gcagggaaca acacaagatt taccatgcct aggggatgaa 300  
 tggcaaaccc aactttggct aatgtcattg agaacaactt ggaagcgtga gcagagatat 360  
 ctcatgaagt ggcagtgaac ctacatttcc atttatcaga agcnaacatg gaaggttaca 420  
 tacatgatga antatttgaa gttaaagact tnagacacca aatccctaatt ttnaaagaac 480  
 atgccnctg natttcaact tgcna 505

<210> 9750

09529459.072300

<211> 608  
<212> DNA  
<213> Homo sapiens

<400> 9750

gtananatgg	gtcttgctgt	gttgcccang	ctggctcttta	acgtctangn	tcaagctcaa	60
gctcttgccct	tgccctccca	aagtgcctggg	attacagacg	tgantccac	gcctggccgg	120
taattttctca	ttgtgaattg	attgggtccc	tgtaagtcca	gancctgtcc	tgagtccttc	180
atctgaatga	gggtgaaaag	actgagtttt	ctgtcccggg	tgacaaggac	agaatctgtc	240
ttgtgaaaca	accagaagaa	aattccccta	agaaagccgt	ctagcggggc	agtggacaca	300
acactattct	atatcanaca	attaaatgtg	aggatgaan	ggtgaacccc	aactggtgcg	360
taataacact	taggattaaa	atgaaaatat	gcaagttcca	gtgactttca	aatctggcaa	420
caaatcctaa	gattcccaac	ccctcctgca	acaatgattc	naaaatacca	tatttttttc	480
ctctccctct	cctccatcca	taattaccan	ctgaatgttc	cccatnttct	ccataaaacc	540
cacacccaac	atcacccctg	gnccaatntt	tanaaaaatt	tggcttcogg	tcccccttg	600
ccctttaa						608

<210> 9751  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 9751

gtaganccat	tctatccatc	cagctatgaa	atcttctcta	aaagcctctc	ctctgggtgc	60
ccattgcact	tttatctgta	ctgacttggg	ctacttgtca	gttgtatatt	tgcoctgtatt	120
gtctcccata	ctgaaacata	aaatccccgt	ggacaagaaa	catgtcttac	tcatcttagt	180
atttctagca	cctagcacag	tactaggcac	acagtcnata	cctaataaat	atgccgaata	240
aatgaaagca	cattacggaa	tgggaaggta	aaagccacag	ttggacattt	tccataatag	300
tgtattttca	acccttacag	aaatagactt	gcagtgggaat	gtctactatt	tagcagctga	360
attcagactt	ggggaanagc	ccanaaactg	ctacacttca	cagatgggtca	tttggaanaan	420
aaaattaatg	canaaanctt	gtgtactatt	taataatanc	tcaggaatag	gtccaaataa	480
caaatccnct	gatnccccga	naa				503

<210> 9752  
<211> 604  
<212> DNA  
<213> Homo sapiens

<400> 9752

cttagtatat	acttttaatgc	atgtttatgt	gcaatcttgt	tagtgggtat	acaagtttgt	60
gaanaacttc	tcattttcaat	aggcagttaa	tgtaatgcat	taaaagcctg	ggaatttggg	120
gctatatttt	tcctttctga	ctcaataatc	ttcaaanaat	tcataggaaa	gtcagttactt	180
gcanacaagt	ggttagcttg	gctaaaatgt	acaaaacacc	cagaacccac	aaaacactca	240
gaggttttag	aaaatgtttt	aatgcttaaa	angcaggatc	aantgaanag	gttacanaaa	300
tcagtgtctc	tggctgggca	gtcaaaaaan	caggctcaaa	ttctgtgact	cactnctctg	360
tgtctcgggt	ggaaatnaat	gggtatcctg	gttcccacct	tcccacacgc	tgtgatactt	420
caaactcctt	gggtgaagg	ncncttctca	cccaaaatct	tgattgtgaa	cataacaaan	480
aaaacatccn	cctccacaaa	aaaaactcct	taatgacntt	tgatccntga	ataaatattc	540

ntttaaaaaa atnttttggg gggatcttaa aattttggaa gtntttcccc ccggaaaaat 600  
ggtt 604

<210> 9753

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9753

ggcanagacc	gggtctagct	atgttgccca	ggatgggtctc	aaactcctgg	cctcaagcaa	60
gtctcccagc	tgggcctccc	aaggcactgg	gactacagtc	atgancaacc	tctcctagcc	120
ctgttttctt	gtaataaagt	aaatgcagtg	ttcatttttag	taacaaaaca	ggtcttcact	180
gggagggaga	aatgaggaaa	tttgaccccg	cgtggctgan	gcctggaatg	agctccatgg	240
gcaggctcca	ggaatgatgt	aattttgcct	cctctcaagg	ctggcctcaa	ggaggcctga	300
ttccagccct	ctttgtctgg	ggctgccctg	aaacctgtaa	aaatccttct	gaccanattcc	360
tccagacact	gcaaattctc	acccagggtg	ctcaaaatcc	tgnaaaaaac	tcaggtttga	420
ttcaaacggg	ctaaatntgg	gttctgcttg	accactttct	gtntttcatt	tggcaattcn	480
cttccccctc	ctnaaccttt	ttcatttctg	cctatctaaa	atcaaaatcc	cncocctnatt	540
tccatttttn	tggtnaaaat	ccatggaatt	aatttttcta	aangntccc		589

<210> 9754

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9754

gtttgggcaa	tagaacactt	tctggcattc	taggtacttc	aatatgtgtc	cttcaatcac	60
cctgaagtga	aagcagtcct	ggcaacttaa	tatttgccctc	cagatgggtc	tctagtcagt	120
tcatgctgaa	acacagctct	gccacccaca	acttgagct	gaccagcccc	caggggaaca	180
tggaananga	caggacacac	ctgttctana	aaaccaggctc	ctcagtaaac	actgctggga	240
atgaaagcct	aaaattatac	agtactccat	tcctgtgaac	gggccaaaagg	atgacgggca	300
acacagggga	aacctgtttt	cacatttggg	catctcctca	catttcgtnt	gancctggang	360
aaaccgtgtn	acacaanggc	ttgctttgcc	cctgnaaact	ggccctaaca	tattatctcc	420
aggcaaaaat	gccatgctca	ctgcaaaacta	tggaaatgan	gtcaaaacaa	aatcaantta	480
ncccttgatg	ggaaaaantt	ggncccaaaa	acccatttct	aaaaanggtc	ccctgnnt	538

<210> 9755

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9755

cagaaaataa	aatagtttta	ttcatagcct	angtaaagtt	caaaaattta	tattgcactt	60
tggcggttat	gctgatcctg	tgtttggatg	gggtcacaaat	aacanggaaa	gccgangcct	120
cctacaaaaa	gtcctttgtg	gcaaatcaact	atganangaa	actccatcaa	aagtcccaat	180
tgttcatttc	atttctactg	tgctacggaa	gcctggtttt	gttttaaggg	ctaacgtcct	240
aggttttaag	caattttttt	tgagcttttg	ctaccagct	aacaagcagt	aaaataatca	300
actcaaaact	acgtctgatg	ccaaagctct	aactctaaaa	ctcaatatan	antttttttt	360



ctgtgacacc	tcccctcgtg	totcccctaa	ctgcgactcg	cattaactcg	ctgctggttc	420
ccanctggan	ancacaaatt	gcacctgctc	cnaaacccaa	cggggctcaa	tntctccgca	480
ctcaacctcn	gctgcctnt					499

<210> 9756

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9756

gtagaanag	aatactttat	tttgaaataa	aatacaaatg	tgcaaaggaa	attagctcct	60
cctgcccccc	ctttgaacaa	tgagtcaata	naatgtgaga	ctgggtagat	tancagataa	120
taggcaaagg	tctagctttt	cagtggcaac	ttgaagaaac	caaagatgaa	tgatgctaaa	180
ggaatgaccc	tttggtacct	gttttaaagt	acttctggcc	cccttctttt	ataaaccccc	240
aggagcccag	caccacacct	tgttacccta	caatgatcac	tcacgctoca	cgatgtcact	300
aatgtaataa	ctgaanatat	gggccagttt	gtccatgtca	cgttccgact	tgtangtcag	360
ggtgaactgt	ccattaatgc	tgtaaaccct	gaccaacaaa	gcagaaatta	cnatgttaac	420
tccaaatcct	aaactttttg	gcccccttct	ccccacacat	caggccagtg	taaangaaac	480
anatccttca	agctgagtaa	tccttttatcc	attaacatgg	tgttacttaa	aaactactaa	540
gggccagttt	ggttgctgct	gccccctggga	aaccaaagga	caccnccgc	tcccaaaaact	600
gganann						607

<210> 9757

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9757

caactaaaat	ggtttttattg	agatgttttg	gttggaggan	atactttttc	tggcaacatt	60
tctgactcaa	ggtccctctg	ggccccagct	cttcccatga	nacagtcaca	acactgttta	120
atcagctctg	canaggccag	ccctggagca	aangaggatt	cagggccatg	gaggggacct	180
actctgccct	gttctggtca	ctacttctct	anactctcat	gcactattgt	ctgtancaag	240
tgacatttcc	actggaanca	cataaagatg	gogacagcct	catttcttcc	tgagtgaact	300
gaancccnnaa	aaaaggggag	gtcccnccaa	aggggaaaaa	accagggccc	cacccaacaa	360
ggatgctgaa	ataaactaca	tntnntgctt	tctaggaaac	aacacaaaaa	tctctactct	420
gaaatccaaa	atnttaaata	tgggcncccc	ctctataatt	taactgtaca	accttatcan	480
tcatttaaaa	ccccccnnc	nacaatanc				509

<210> 9758

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9758

aagtgagcag	atatttttaat	atgcttttatg	ttaataggat	tctgataatt	ttagctttan	60
ttaatgcaac	acacttccct	gggtncaccc	atgacctctc	tgagaactgg	aaaatactgc	120
ataatttnaa	aaatcagagt	gtnatgacat	tcccngacaa	cttcaaataa	gttatgtgag	180
gaggatgaac	tatgggtagt	cnagaccacc	agtcataatt	gtctanccgt	agaaacagtg	240

actacttnna	gatctgcaaa	gatcanagca	caactggctg	aangtgcanc	attctataca	300
tgtcctcatg	gagcttcaca	aaggttatna	gatgaccac	tcactctggg	tggctgtggc	360
catngacaga	caccataaaa	tcctgngatg	tgggtccantn	ctgaactgng	ggggcgngtc	420
tgaacttgcn	ttaa					434

<210> 9759  
 <211> 396  
 <212> DNA  
 <213> Homo sapiens

<400> 9759						
cccaggtaca	acagcaggtt	cttttccaat	tcctcaaanc	gctgcatggg	gtggggggcan	60
aaacanaaaa	aaatnttaac	attgggttcc	accccttgga	gctcaaggga	aaacccttac	120
ccaaataggg	actaactgga	ggggtnaag	ggaacaaggt	gaaaggtatg	ggtcctggtg	180
aaacaaaanc	agggggggcct	gaaaacacaa	aacaaggtgg	gtttggaggg	ancacaccan	240
ggttcncgaa	aggaaattgg	ggacatttcc	tattccagtg	catgtcccct	taaataaaact	300
gggttcagga	ccnttntgga	agganaaccc	nnggacaaaa	aacaaancga	gcacccccnc	360
cccaggccaa	ccccatcctc	ttttaccaat	tacaac			396

<210> 9760  
 <211> 576  
 <212> DNA  
 <213> Homo sapiens

<400> 9760						
aattctggaa	gatttttaaat	caatttaaca	ctattataca	ttagaggaaa	aaattttgca	60
caaacactcc	ctcacaaagc	cagtagtctt	atatttacat	agcatgatta	tggtaattta	120
aaatgttaat	ctatgataca	atgttacttc	agaaaacata	taataaaaata	tagttgtctt	180
atagccatgc	tcccattttt	gatgaaagct	agttagcaaa	tcctaattgtt	agtttaatac	240
tttaaaaatg	cataacagat	attcagtcag	cattataaaa	cctttaagac	agaaggntgt	300
caagcagaat	agacagaggg	ctcatcatca	cttatgtctg	aatcttcatc	tactccttca	360
ataaccgatt	tcttcccttt	acaacaggat	acaattaatc	caatcaaaaa	taccccaaga	420
aagggccagt	taccaaaata	gtnagcacc	tgaagaaccc	aaacttnttt	aagggaatagg	480
tttttccggg	taacattacc	tggnntttcg	ggaaatttgn	ntcanttttt	tttgggaaaa	540
aaagggttna	atgcctttta	aattncnaaa	tttttt			576

<210> 9761  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<400> 9761						
acatctttat	tgatgttaaa	caaatctttt	acatctttat	ctatataaatt	cacgcactat	60
aaaattcacc	cattttaagat	gaaccattca	atgccattca	atgcttttta	gtatattcac	120
gcagttgtac	atccatcatc	acatctaagt	ttagaacact	ttcattgccc	ccagaataaa	180
ccgtgttcct	gtagcagcc	actttccatt	cctccctccc	gccagcctgc	agcaactact	240
aatctgcttt	ctgtctggaa	atggaatcac	acaaagcctt	ttatgtctgg	cntcttcatt	300
actttttagg	gccatataat	attccattgt	tatagctatg	ccanatttgg	tttatctatt	360

09629469-072300

cattancatga	aggggcattn	gggctatncc	catttctcaa	ttattataaa	taaggctgct	420
atnaacattg	tgtgcaantt	tttctgggga	nacatntttt	catttgccctg	ggggtaaana	480
cccagnaatt	gtancc					496

<210> 9762

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9762

ctctaactctt	gangtccact	ttatgtcatt	aaagttgata	ttcaatctct	gatatccttt	60
cttctgcttg	atcgantcag	ctattgatac	ttctgtatgc	ttcacgaaag	tctcgtgctg	120
tgtttttcag	ctccatcaga	tcatttatgt	tcttctctaa	agtggttatt	ctagttagca	180
attcctccag	ccttttttca	tttttagctt	ccttgcatgg	ggttagaaca	tgctccttta	240
gctcananga	ntttgttatt	acccaccttc	tgaagcctcc	ttctgtaaat	tcgtcaaact	300
cattctccat	ccagttttgt	tctcttgctg	gcaaggantt	gtgatccttt	gcagganaaa	360
aagtgttctg	gttttttgaa	ttttcacctt	tttgactggg	tttttcctca	tcttcatgga	420
tttatctacc	tttggtcttt	gangcnggtg	aacctccgaa	tgggttttng	tgttggaaat	480
tcctnngtt	naaatt					496

<210> 9763

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9763

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnn			514

<210> 9764

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9764

aaaggcatga	ttgatagttt	atttaataca	tataacattt	aaaacttttg	ttccnchnaag	60
gaaacnaacn	aaacatagcn	aaaggataaa	acgtcccnct	agaaaaacga	ntccccactta	120
tatgatgaca	aagatgtgta	gaatcatgtc	aactaccgct	acaaatcagt	aagcaaaaaag	180
gtnaaacaat	gaaaatttaa	gaaaaaaaaca	atttattgaa	gaaacacaaa	tagccccnaa	240
acataccaga	agatgttaaa	cctcactaat	gattaaatcn	atgccnaata	aaatgatact	300
gaggtnagat	ttgcaagtna	aactaaagtt	actaacaaaa	tccaatgtta	gtgaaactgt	360

gagaatatat gcctttgttc acattattgg caaaagtnon aatttggggt ctgaaaggaa 420  
atttaaatat gtcccnnta tgttcnong ttccct 456

<210> 9765

<211> 476

<212> DNA

<213> Homo sapiens

<400> 9765

gttttntnaa gtgaaataat agattttattc caagagaaat aaaatgtcct gggtaaagct 60  
tctgtntaaa tactatttct gatactgtat ctctgaaaaa tggctaacta gtcccttattc 120  
natacattta aggcatcaat aataggtnc cactgaggaca tacattgtga agaaaganaa 180  
gaataagtcc aataactaaaa catacttattc atgacaactc naggtgacat gaataattta 240  
tgaaaattta gaataataca acatatgact ctcatcttgt ggacataaaa ggaaaaatac 300  
agtaattcat ttacttcatt acatttttaca aaatcagccc aatgaagcag tattttttta 360  
taaaaacagt aattttaattt caaacaataa tattaccatc ccaatccctt ancctgggta 420  
aatntttccn aatgggcaaa acntacttta ctgaaattca ntaccanncc atccca 476

<210> 9766

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9766

ccaattcaga agaactttta tgcatatncc atcattgcc aatnataga gatagaagat 60  
accttaagaa aattcngttt gtntccataa aacagatcna cncagaacaa ggaaacccat 120  
agatatttgt naatgagatc ttctcttttg ctactgtgta tatatatcc tttatattca 180  
tacaaactcn caacacatga catttcatat ttcatatgcc actgagaaga ggtgtctgt 240  
tncagaacat aggaagaaga aaaaagcngt agaacatctg cttagttaga atctgatgag 300  
gagagacgtg agagctattg ttctctcttc tgctcaggcc tatcgagagg caactgcagt 360  
ttttgctaatt ttttctctct gaggaattct gctcactatg ctatgggtcat ctccnangtt 420  
gggctgtgaga acancctggt ccccttgtaa taaatttaaa anaacattng gggggattga 480  
atatgatntg cc 492

<210> 9767

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9767

gttttttgtt ttgttttttt tttgtttgtt tttttttgca gcagacaata tcattcagct 60  
tgtgctcagt ttccctataa gggtaagaaa agtttccatc aggtagccac ttgtttttat 120  
actgaaagac taatctgctc caaatgtctc ccaagtagaa atgacaggac tcaaaatccc 180  
tttctaaagc ccaacagcta actttttctg actaatctct agcttcattg aaactggcta 240  
ccaagattgc atttcaggct aacaattggc ttcttagtta aggcatcaca actgaaaatg 300  
gttattttcaa caatggatgc tgtggatgaa ggaataccaa caaacttcta agaactctca 360  
tcaaaaacta aagcaatttg ctttgcccca gtggcaggca gaaggaattt agcccattat 420  
ctcacaact aggaaangan ttttggaatn ctnantanc ant 463

<210> 9768  
<211> 536  
<212> DNA  
<213> Homo sapiens

<400> 9768  
aatttattct tatttattta ttttgttttt gagacggagg ttcactctgt caccagggct 60  
ggagtgcaat ggtgcaatct cggttcactg caatctctgc ctcttgggtt caagcgattc 120  
tcctgcctca gcctcccgaa tagctgggat tacaggcgtg caccaccatg cccagctaata 180  
tattgtattt ttagtaaaaa tggggtttca ccacgttggc caggctgggtc tcgaactcct 240  
gacctcaggt gatccacctg cctcggcctc tcaaagtgtt gggattacag acattagcca 300  
ctgcacgcag cctttctata cactttaaat catctctagt ttacttataa taatgaatgc 360  
naagganatg cgatgttaat aattgttaca ctacattgtt taaggaacca agaccagaaa 420  
aaaatccgtt cacattccat acanattgcca ttcccttttc nctntttttt gatctgttgt 480  
tgggtcccat ccctnggatt ccggaacccc tggaaanaaa agaaaatttt ttgcnc 536

<210> 9769  
<211> 497  
<212> DNA  
<213> Homo sapiens

<400> 9769  
gaacgccaag cttttttttt ttttaattaaa aagaaaaaaa aagagagaga aaaaattcca 60  
cattcattaa aatctctttc tcttgataat ttctgggttc cagctgactg gatgagtttc 120  
ttctgtggct gtgtcatcct ctctgtatatac tttaatgggt ttatcagctt cagctgttag 180  
taatcgactt tcagactgat caaaagcaca agcaaatatt cctgattcac tgtccaaaga 240  
cccagggttg acagctgcgt gaactctctg aaaattgttag ccagttctcc agtcccaaag 300  
atgcatgggt ccattgtcag ctccagatac aagcactcca tcagaattta ccgtcaatgt 360  
gttaataata gcattatgac cggaaagatt ttgaatgaaa cttccatcag ggaatttcca 420  
ctgctttatg ttatctggag aancanattgc caatgtntta tgtcttggat gttaaancnc 480  
agccnaacn gaatttt 497

<210> 9770  
<211> 598  
<212> DNA  
<213> Homo sapiens

<400> 9770  
gagacagagt ctgcgtctgt cactctgtcg ctctgtcacc aggttggagt gcantggcac 60  
gatctgggct cactgcaacc tcgcctccc ggggtccaant gantctcctg ccttancctc 120  
ctgaataact gggaatacan gnacatgcca ccatgcccg gctcattttc tgtattttta 180  
gtaaaaaac ggggtttcac catgttggcc aggatgggtc ctaactccag acctcgtgat 240  
ccgcccgtt tggcctccca aagtgtcggg attacaggca tgagccacca cacctggccc 300  
ctcttttctt tcttaatcac aggatttggg tcaactcttct gtaggcagggt gagtttactg 360  
cacatactct ggaataccac tgttcanaat gtcaaattaa atacagtgcc aacactgact 420  
gaangcgtt tactggggaa aaaactactg aaaaaagaat tcntaattat nttctacanc 480  
actgttantic canggctacc tactgttcta agttaaacccg aaattntcta accccccgaa 540

tntcctaaac caatactcca aatctcctaa acatcttgga agaatnctnt tccccct 598

<210> 9771

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9771

gttggtgttg	taaagtcggg	gttttgccat	gttgcccagg	ctgggtctcaa	actcctgggc	60
tcaagtaatc	ccctcacctt	gaactcccaa	agcacttgga	ctacaggtgt	ganccactgt	120
gcctggcccc	taaagtattt	ttaattaagg	tatatacatt	gtgttttana	cacttcgcag	180
cctacagtac	agtgtaaatc	cttttttttt	tttgagacga	aatcttgctc	tgtggcccan	240
gatggantat	ggtggtgcaa	tcatagttca	ctgcaacctc	cgccctcccag	gttcaagcaa	300
ttctcctgcc	tcagcctott	gagtanctgg	gactacaggt	gtgcaacccc	acacccggct	360
aatttttgta	tttttactaa	aaacagggtt	tcaacatgtt	ggccangctg	gtcttgaaat	420
tcctgacctt	gtgatccgcc	caccttggn	tcccaaaant	gctgggaatt	acangcgtna	480
accaccgcaa	ccnggcctaa	tttttttttt	tttccatttt	gggtcncctg	aaaccccccc	540
nccccgttca	aattaatatc	cncccccccc	caccantttc	ttaaaatacg	ggacccccca	600
cttnccg						607

<210> 9772

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9772

aatttttaac	aaaattttat	ttagagcatt	aggaaaatca	tattcaaaac	acagaaataa	60
tcagactata	acaatgctgc	atagatagtg	gtatacaagt	tccctgactc	taacttcttc	120
ctaacttaaa	agttcaattt	tcaagtcacc	aggtagaaaa	tgggtggaggc	attatttcct	180
ctttctgagg	ctataaaaaa	atggcttcaa	tgggtgagaag	gcaaaccatt	taaacaatga	240
agattagatt	ataccccaat	ttaattctat	tcccttcttg	tttgttattt	ctcatagatg	300
aaaatttaga	atgtnataat	tattggaaag	gaataagaag	tgaattacct	cttaggagat	360
accctgatca	gtgcctgctt	taatcagaca	aaacactaag	ttttaaaaaat	tacaaccaca	420
atattatgcc	taactaaaat	tgccaatatg	aatacttttt	tacagaatac	attacatgtt	480
ttccagaana	aaaatacttg	tttcctatcc	cccgaacctc	ngttaaaaaa	aaatntttcc	540
cttaccngga	tncgaaaatt	ttttcccggg	ggaacattac	cccnnggggt	tcaatctttt	600

<210> 9773

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9773

gaaananaat	ttcgttcttg	tctctcaagn	tgcaagtcaa	cagcatgata	ttgnttcaact	60
gcaaccttcc	cctcccggtt	tcaagctatt	ctcgtgcctc	agcctcccaa	gttnctggga	120
ttacaggtnc	ccgccatcac	gcccggctaa	tttttgtatt	tttagtaaaa	acgggggttc	180
accatgttgg	ccangctgg	ctcgaactcc	tgacctcagg	tgatctacct	gccttggcct	240
cccaaagtac	tgggattaca	ggcaggancc	accacgccc	ganaccangt	tcttgacct	300

agtctgtaat	taactgattc	gggctaagcc	acttantatc	tctgggcttt	agttataaaa	360
tgaatnnaca	ggactcaagt	ttccttctgg	ctccnaatgg	ctatacttta	aattttattg	420
gttattcccn	aaanccaaa	naaaaaataa	atcttatcat	ttctatcatt	aaaaaaaggg	480
nnatccttgt	ncccccttgn					500

<210> 9774

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9774

aactttaacc	taaaacttta	attggaaaga	caatcttata	aaaatcttat	aacatattct	60
agaaatggtc	caaatactat	cacaaatgga	agaaagttca	gcttgaggag	catccaatca	120
tgtgaggtaa	aagtcttcta	gtagaaccag	catgatcttc	cagaaaatta	caaagtaacc	180
attatctacc	ccgtcatctc	cttcttgcc	ggcatcccca	gagctgaaga	aagggaagaa	240
aaaaaatgga	tttgtttttt	gccatgaaaa	atcttaacgt	aaagattaat	gcaccttgct	300
gcttaagana	aagggtgttac	tttcaactcg	ggtaaattaa	atactaggat	tgagactaat	360
ctgttcacag	ccaaataggg	gtttactgaa	gctccaacgt	ttgaataaag	accacttatt	420
gggaagacnc	cccnaatnc	ntnttattcc	ttccctccac	naatttttat	taagcntcc	479

<210> 9775

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9775

gtcagancaa	gaacactttg	ttttggattt	ctcccttccc	ctcccacctc	ccacctctgg	60
aatataccgt	ctgctcaagt	acccaagata	aganttacac	agatcagggc	anaagaccgg	120
gaagaatgaa	aaaagataaa	gggaaggaag	tctccnctga	agaaaaaaag	aaaaaaaata	180
aaaataaaaa	aagggtgcaa	ttgattacct	tagtcctcct	ttgtctaccc	ctgggctcct	240
gggttaaaga	catgtgtgca	gccaaaatat	antgttaggg	aanaaaaacc	caacacgtcc	300
cttcttgtcn	caaaacccaa	aggtgagcct	caaatggttc	tgtctgtcca	aaagggtgctc	360
cctccangga	aanggggcgg	aacaggtcna	aaacacatct	ccaggcacaa	aagttttttg	420
gtggctgatg	gtgggganac	tggtttcccc	cccccaaaag	gctgcncctc	ccccgggctg	480
gtggtgcttc	ccatccccnc	ccccctgna	ggcaaatttt	tttcttgaa	acccccctg	540
ggggccccc	gcggcnggaa	aaaaaaaatg	cnntttgntt	c		581

<210> 9776

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9776

gtagttaaaa	ttttaaaaca	ttgagatacc	acctcacaac	tattaaacac	tcaaagacaa	60
cattagtaac	tggctgtgtt	ggggagggcc	tgaggaaaaa	ggcactctcc	gcattgtagg	120
agaatacatt	gacaagagca	tcataaaggg	ccattcagcg	tctatcaaaa	caacaaatgc	180
atatgccctt	agtattctgc	tatttcaactt	ttgtggaatt	tttctacat	atataatcac	240
aatcacatga	aatgacatgt	gtataaagtt	attgattgca	gcattgttta	cagtagcaca	300

gtatcaaaaa	taaccaaaatt	gacaccacta	gaaaaaccag	ctaaataaac	tgttattccc	360
atcatgcaag	gagatacttt	acagctgtna	aatgaatga	agatactgtt	tgtaaantc	420
ntatgaaaga	ttttccnaga	atttacattt	tgaaataanc	caggttccaa	gcncaaattg	480
ttn						483

<210> 9777

<211> 412

<212> DNA

<213> Homo sapiens

<400> 9777

ccagacacca	caatgactta	gagaacattt	catctccaag	agctgatttc	aaattatgta	60
acagtaaattg	aaagcactct	gtaactggta	aagcattaca	aatgtcgtaa	tattcacgat	120
ttaaatcata	tatggatgat	gtcataaata	attctaaaaa	gttggtattt	tcaacataat	180
cacatttttt	aacaactaga	tttttgtaa	gcttttcagc	actattccag	aaatacttat	240
agaggaagga	caactagtag	acaaaactgtc	accttatttc	ccaaattcac	ggttggggaan	300
aanaactact	tccactgaat	gttaatgaaa	cattccacna	aatcccatna	atctttcngg	360
acattcccng	gtcnatggtc	caagcagatt	aaaattactt	tccnatnacc	cc	412

<210> 9778

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9778

aatctatgac	tacaggaaaa	cattttattta	catgccctct	acaaaatgga	tttacaaaac	60
atagtaacta	ttagggtaca	tgaccttgct	cctatcttcc	ccattgtgct	tcttctctat	120
agaaaacca	atatgaaatg	acaaagagta	ctgtactcag	aataagaact	tcatctatca	180
taaatgtnc	cataaatatc	agtgaattgt	catactcaag	actcagattc	aggaacttct	240
tcatcagggc	agcagtaata	ttccacaaaa	catatttgct	catcttcatt	tctaatacata	300
tactgtaatg	aaaggaagcc	tctgttatct	gtccgaatag	ataccttaca	agataggact	360
aatgcctttg	tagaggggtt	cagtaaggaa	atcttgtatc	tggtgacttg	ggtctgaata	420
caatgaaatg	ctcctccatc	aaaatctttt	ggnatccan	gggggaactn	cccgcntttc	480
caaatttaan	ancc					494

<210> 9779

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9779

aaaaatccat	acaaatgata	tttattacta	tttcttggtt	aagccctcat	gtatcttctc	60
tattgtattt	ttggattctg	taaacaaaatt	actgtatcat	gaccaatact	tgctcaagat	120
caacattgaa	tcatggattt	ggtgtcactg	agtgcagcc	atgtgaggtc	tacatgtgct	180
gggacatacc	attcaccaaa	cttctcagct	gtttcacgac	tgtctctatc	aacttctgtt	240
tgtctcgatc	attcttcctg	aactgagcaa	atatattgtt	cttttttgcta	gtatccttca	300
tcttctccaa	aanantaagg	gctgtgtttg	gattcacccg	aaggtaacta	aaanctggct	360
gcccataatc	agctangtaa	gtagaccaat	cccaaaccat	aaacangtca	aggaattgtc	420



tgaaggtcaa tgaatgctaa ctgcaaggtt tccccccggn aaaccnggca caagntccaa 480  
actnngggaaa atttccnctt taaaactttt aaaaatggcc ngcccant 528

<210> 9780

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9780

aagacgtagt ctcactcttg ctgcctaggc tggagtgcaa tggcacaatc tcagctcact 60  
gcaacatcta cctcttggaa ttaagcaatt ctctgcctc agcctcccga ggagctggga 120  
ttacaggcat gcaccaccac gcctggctaa tttttgtatt tttactggag acgggggttc 180  
atcatgttga tgatgaaagg tcccaaacct gaaacctttc acatntgaag cgaacatntn 240  
atcactacac tacaaaaacc cctcncagtt cctggcacaa aanatatcc tgaaatntta 300  
ccatctgctg tttttaacta ctaggggttc caatataaca aattcnactg cttttcaaaa 360  
tttgantnat aaatacggna ggaaacacaa tccctcaggc aaanaggctg aaccctcatt 420  
tacgggtccn cncctaacc c 441

<210> 9781

<211> 503

<212> DNA

<213> Homo sapiens

<400> 9781

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnn 503

<210> 9782

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9782

gattatttaa atagttttatt ttigttaatg ataggaatat ctctcagta agttcaaacc 60  
attttataac aggggaanaa taagctagtg ttagatctgg aaaagttaat atagcattat 120  
cttgaaattt caggggtaaa aagtgggtga ctggaacttc ncctttttta accaaacaat 180  
gttnaaataa acatatctga atagaaaact gtatctggtt cttttttatg tcaaatgtaa 240  
aatactttta taganaaaat tccatttttc tgcattctatt tagatgatat tacaataaaa 300  
ggcantgtgg attgganaac atagctagtg agaattattan gtttngtaat ttaaaaaaaa 360  
attanccttt ccctatgaaa taaaatncat gatcccctta attccnctt 409

<210> 9783  
<211> 599  
<212> DNA  
<213> Homo sapiens

<400> 9783  
gtataatgac ttcttttccct ttgggtaaat acctantant gggattgctg gatcaaatgg 60  
taaattctact tttagttttt aaaggaatct ccacactgtt ttccatagtg gttgtactag 120  
tttacattcc caccaacagt gtaagagtgt ttcttttcac cacatccatg ccaacatcta 180  
ttattttttt gttatggcca ttcttgcagg agtaagggtg tatcgcatg tggttttgat 240  
ttgcatttcc ctganaatta gtgatgttga acatttttcc atatgctcgt tggtcatttg 300  
tgtatctcct tgtgagaatt gtctattcat gtccttagcc cattttttga tgggatcgtt 360  
tgtttttttc ttgctgattt atttgcatac ctgttagatt ctggatatta gtcctttgtc 420  
agatgtatan atttgtaaan atttncctcc actctgtggg gttgtctgtt aactctgccg 480  
aattattcct ttttgggtgca aaacctttta anttnaatta antnccatt aancaattac 540  
cctgtccttg ttgcattgct ttgggggtcnt gggcccaaaa tcttgcocaa ccaaattnt 599

<210> 9784  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 9784  
caggattagg cacattttat tccaaatcat aaccataaag atttagaaaa tcaaatacat 60  
caaagaactt taaatctaaa ttactttttt aganactggg gtaagtttgc atagtgaat 120  
tatgagcacc ttttcaattc tgttcaactaa atttcatctc tctcttcata tagtggtatt 180  
tcaaaggat tcagttttca tgatacaggt gtaagactcc tttcaaacgt ttttaaaata 240  
caacgtataa aaaaatgtgg actgaagcct ttagattgaa cttaaagttc tactgaatgt 300  
caaaacaagc ctaagttgaa tataantaat tcattgcctc aaaatatagt cttaaatttta 360  
aaagaatgtt gattctgana cattacatgc agcaggggaa aaaaactgca aatgcccaaa 420  
ataacatgat atctatttgg tgttccacac tcctgggtgg taattcnaaa nggggaaact 480  
tggtgatttc tgctttgtcg gcatacttat nggtncgtnt ccnatntta ctttgactta 540  
ttttaaa 547

<210> 9785  
<211> 622  
<212> DNA  
<213> Homo sapiens

<400> 9785  
atttttgaaa atatcatgat agtgtttaca aatgcacaca actttgagca aagctttaca 60  
aatccttcat accatacaaa gcaaatgaga aaataatgtc aattcatttc taccocaaac 120  
ctagttctta ggagaaaatt cgcaggaaga gaggtatgag tagtttcaca gaatacattt 180  
tcaagaattt tttaaaaact gaaactccaa tgcccagaac aagataaaca gtatccttag 240  
cagtttagcac tgtaataaaa tctcagatac acaaaaatca agttccagag ggcaaagcat 300  
ttaattacag tccacaacga gcactgttgt gattcatata aaacatagtt ctctccaatt 360  
tctacacaaa ccgctctttt aatttattta attagatgaa caatgaaaat cgttttcctt 420  
ttcagcattt atctaagatg ttagaaataa caaagtagtt gcaataaagt gtttgaaata 480

09629469.072300

tttaataaga	atgttcgaac	cttataccaa	attaattggt	gaaaaaaaga	aaaaanaatt	540
cctcctccaa	ccaacccntt	ttcctaaaaat	naaaatacnt	tcccanggga	aaaaatttct	600
ngggngaatt	acacccccaa	cc				622

<210> 9786

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9786

gcctgcagat	tcttanagaa	cgtgggtaaa	ctgtgctaaa	agcttcctaa	tacattaaga	60
aagtttgatg	aaaggtacta	aaaccagaaa	cttttatttt	aggaagtaaa	cttgtatcaa	120
caagaaaatt	ccctgtattt	ccagggataa	taattcctca	tctgcttatt	tgaccctcac	180
tttcctttta	gactttatat	ctttccgatt	gaatgtatac	atttttaact	cagaaaaata	240
atccacatga	cttttaaggt	gttcatcatg	cccacctttc	accattgaaa	attaaacaag	300
taaaggggaag	tccaagtaca	aagctaccgc	tatgttttcg	gananatttg	aaacaatcta	360
tttacacatg	aaatattatt	aacatcaaaa	aatgttttgg	ctcancatgt	tgtttaaaat	420
gattctctca	gttccaacca	atcttctatt	cctagcgggc	caattgccct	acaaaaaagg	480
gactgcatgn	tgtctacaaa	ggnntttcct	cccctttctt	aaaacacact	tccnccctgg	540
aaaacncctg	nactanaacc					560

<210> 9787

<211> 339

<212> DNA

<213> Homo sapiens

<400> 9787

atatatacat	tagaattttt	tcctttttatt	cttggtcaca	tcttccaaag	ctgancttcg	60
tttcnaaagg	aaagatacca	naagcangaa	gaaggtcctt	gggaagggaa	gtggaatctc	120
cctcctctag	cccccttgct	acctcttaac	aggcttcaaa	gtcagaatac	agccatcagc	180
tgagancagt	tcattttggc	acactgggag	gccggctgtg	cacaccggac	ctctctagtg	240
ggggatcagg	tcctctgctc	tccantgggg	cctggaacag	ctccngtgag	atgccccncc	300
tgtnggctgg	gggtncanca	canaacctca	gctccccc			339

<210> 9788

<211> 614

<212> DNA

<213> Homo sapiens

<400> 9788

aaaatgtgct	cagtgttaac	tttattgata	ataaccaaaa	acaaacctaa	tattttatga	60
ttttaaaatt	atttttaagc	acaaaatana	cccatgttgg	ggatgaataa	catgtctgag	120
tttgtttaatt	ttgtctgcta	cttttcccta	tatttccttg	tttccttcat	cctaaaaattt	180
ttaaaaaatga	aaactttaat	cattgtttgca	tgtttaaaact	attgaatatt	ttcttttggt	240
aactgaagta	aaaggaaaca	ttcttgtaga	attatggaaa	ctaataatgc	agtaggactt	300
aaaattgaat	gttaggaggt	tcttcgtttt	aagaatcttc	ccgtgggaga	agtttccatc	360
gaactgttat	atcaatttta	tcatcaacat	ttcccagcgc	ctgctcttta	cagagttcta	420
agaacacctg	ctccaaggta	gcctgagaga	ggctgtattc	ctccangttg	aagggtctgtt	480

tcactgcctt taatttgaaa aaggctgana cagaagggtg acatccccc caggtaactt 540  
acatgccata aagaagaata tcttcccgcc aaccaccgtg ggaaaacctc caaattccgt 600  
ntgnaaactn cccc 614

<210> 9789

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9789

atcttttaaaa acagatttaa tgtgttaaaa aaaaatagaa tcaagtgggtg tgcttcgcca 60  
ctgagatgat tgtgctgtgg ctccggggcc acatagcacc agggctcgat agcagagagg 120  
agtttcggcc ctgctccagt gcatgtgact ggtgcagggg cggaggccca gccgcacggg 180  
ggccagagca ggaacacagc cacctgttcc aacaggcgct gtgccttgta tgccccgtac 240  
atgtgcctgc cctgagagga gcatgggcca ggcctctctt ccagctgtgc ccccagggtg 300  
ccagtgaggc agggcgacct ctcaccaaca gagctcctcc aagccatgct ggatttggat 360  
tcctggaacc ccctgtaccc atgcgggtggg ccacccccag ggggagggga nganatnnnn 420  
n 421

<210> 9790

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9790

cgggcactga aatcttttat tcgttaattt agtttctggc aagtgtttcc tcaaaatcat 60  
caagtnnttc ctgaacgta aaaccacaca ttaaaaatgt tattccactg aaaatgactc 120  
ctatgcaa atcgacatgt gatgtgtgtc caaatgccag agcattttga gaaaagaatc 180  
ctctgcaaat aaaattaagg taaaagctga gtcagggatg atccgattcc cccccagga 240  
aatgacctgg agctgcacca actcagcgag gttggagctg aaaccctgag ttaataatga 300  
tcaaaaggga caaaacagga aggcctgggg accgtggaca gggnaagtgc gcanccctga 360  
ttgccantgg gcggaacaag gtcaggctcg gggaaacaag aagggttggtt gggcggtggc 420  
cctaaacana acagcctggc cnaagctggg ggccactgtt cctgaagcca aaagaaccag 480  
gttggttggg ggccnttttg aaaggaataa aaaggcctaa aaaaaacccn ctgnaaagtt 540  
ccttttaaag cctnttcaan cnaaaaatcc ntt 573

<210> 9791

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9791

caaataatta ttggtcatcg gtcaagcana gtcttctgag gtctctatct taaaacagct 60  
gcagggataa gggacatcac tacctactgt ctttggatta catgtgattc tgaaaactat 120  
tcaatcctga aatgtaatca aatggccaaa tacaaccca atttaccact gatttttacg 180  
taaagttgag tctttgatca caatgctgtt ccttaagaaa tgatcaataa ctgctgagag 240  
atggttga aaatgcctttt cccacattt tggtttgtt gttgtttgct gactttactt 300  
ggcaagagtt attgggcctc aaatcagata ttacaactg taanacaact gggaancagg 360

gaaaagggaa aaggcaaggg gggtnggaaa aaggactacn aaaaaaaatn ttttcttttc 420  
aaangttaaa acna 434

<210> 9792

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9792

ccanaaaactt	gacacaatag	tacttttattt	ttcactttatc	caactgcctc	gtacaaatac	60
aantgggant	tgcaaatgac	anaggtttgg	ctctgcacag	ttttttcana	aatccaggct	120
tctggtgatt	tactctgtgt	aacacatagc	ttcccaagtc	acattttaatg	tcaacatgaa	180
aggctgcaca	tgggagggtt	ttatgancca	ggtataaaaa	ttgcacatnt	cacttccact	240
cacattggaa	ntaatggcca	aaatttaata	ataccnncct	cnaaaaaggc	tggaaaattg	300
cctgggctat	gtnttcagga	caaaaggaat	cnggtttgat	gaaaaataac	cgggtgtcaac	360
cataancact	attatnttct	aggcactttg	ctgggggatt	cantgatgan	caaaaaacat	420
ccttgatgaa	caaaaatgac	nttcntanta	aaca			454

<210> 9793

<211> 318

<212> DNA

<213> Homo sapiens

<400> 9793

acagactatt	tgttttattat	gaaactaact	ggtaaagcag	agtaaattccc	attctatatatt	60
atagcactac	aaacatcctt	agtcattcct	tcatttggtc	attcattcat	tcattgcattc	120
agttagtatt	tcttaagctc	ctacagtgtg	ccaggaggca	ctctgttcat	tgtggcatta	180
caaagataaa	gattaaggna	cgtactctgc	cctcaaggag	ctcccaatct	aattgtgcan	240
anagatgtga	aaatgaagca	tgaactcca	tcgtgaggan	cgccganaac	aaaagtctgc	300
tcgaagtgan	gcanaant					318

<210> 9794

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9794

gttttggttg	tananaacagg	gtttctctat	gttgcccagg	ctgatcttca	actcctgggc	60
tcaagtgata	tccccggctc	tgccctccaa	agtgtctanaa	tttcaggcgt	gagcccccg	120
gcccagtcag	catttgcttt	cacatacatt	cacttgcttt	attttcttta	cacctgtgtc	180
atatattaaa	aaactacaca	ttaganaaatt	taaaanattt	gccaaagtgtg	ctcanaaaagt	240
gatctgatgc	taagatgggtg	tccttccact	tgtactaccc	ctatagccta	naagtataacc	300
attaatccat	gtcctccttt	ataacttggg	gtcacacatg	gatcatgtctg	tttcagttat	360
cttgtcta	ttgatttcta	acattgttat	tgattctacc	cctaagtgcc	ccaccttaaa	420
ccacaaaatg	ttaaaaatgc	tggatcattt	ctacaatgtt	atctctaanc	ctgggtgaacc	480
aaaaaattgc	taaactactt	tgtgcaacat	tacaatggcn	tgctgttact	ttatttncca	540
atccaaaatn	ttcaaaaatn	aaattnannc	caact			575

<210> 9795  
<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 9795  
ggatttatgt tgtcaataaa cattttatta gttccttgta tggataagaa gcttaaagtc 60  
aatgactaat tcatgccata tacacatatt cctgttttag attttctatt agcaaacatc 120  
ttgttcaatt gttgttggga gttttgagta cattcagaaa atgaaacccc acaatcactg 180  
tttacaacaa atgagtatgt ntttttccta ataaaatgaa gctgcttgaa aaaaacatac 240  
cttaaaatta agaatgttct cntcacttaa taagaatgtn ctcattatta aacaataggc 300  
aaatcaaaca aactactaaa gtggcaatgc tcgggatttt gagttccgcc ccaaacttga 360  
aaataaagta aacagccctc aaactttgaa ataaaatgat nccccgtga aattaatttg 420  
cctatncaaa aaacgaattn ncccaacccn tccaccctcc gaagggnntt ttccccact 480  
ttatccancc tttcgggcaa aatgggtacc nttaatTT 518

<210> 9796  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 9796  
gttcttaagt aatttatTTT aaaattataa gatttacagt gccttgatta tgcaaaatag 60  
cataatggaa attaaaccaa atcaataaac caaagagaaa gaaaacttaa ttttctctag 120  
tatccatact taaaccatct ttgtaagtat ctgatgtccc aaccatgtct tatgtagaaa 180  
gtataatcgt ttcaaagtgt tcaacttgag gttaatttc tcattttcaa tttttatgaa 240  
ctgtaatgca atttcaaatc ctattatacc tagtgtttat actgcaacag cagcaaatct 300  
cacatgtgta atcaaagtgt gaactggggc acagcttcta gctgtagaca gaaattatac 360  
actgcattca gtccaggaga gtacattaca ttaaccagag cgtagagttt agtacactta 420  
ttgcagggtg gtatttcttt ccctctgata tgaatcagct gagctgctga gcagacatat 480  
tactgggtgt gatagtaana ctgctgtggg ggctgangga angggtatna agctgctggg 540  
gtccnggtnt gancc 555

<210> 9797  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 9797  
ctcaagctgg tctcaactct tggtttcaag caatcctcct acctcggcct cccaaagtgc 60  
caggattaca ggtgtgagcc actgtgccca gcctatgcta catctttcta atccattct 120  
gtatatactg tgattttact ttcttgaagg ggcaaagaat gaanaattaa cagcaatcag 180  
caagaaactg gtttctctct tactgacaac tcctctactc caanacagcc ttccatgggt 240  
gtaactaatg ctgttagtca atattacagt ttgccccitt ctggggatgt gacaggattg 300  
caatttctgt cctctctgtg gttaaaaagg ggttctgtta caattcctgg ccatacanta 360  
tgantaatgt gccaaaaaat ggggtanctcc attaacttgg gatccnnaat gtggagaagt 420  
tatanttatg ttna 434

<210> 9798  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9798  
aggtagtggg tgtattataa aatTTTTTTT atgaacatat gtttacaatg aaaaatacaa 60  
actaatgatt tttttttcac gtagcttttag antcaaacta ttcacccaac agcaaggnta 120  
cttgtgggaa cagaaaggaa actataatac ttccctttca tctcctcaac cactcatana 180  
tggcctggct attgagtcaa attattttatt caggatgtca tcaattctct gtanatgata 240  
tgccaaggca aacagcanaa atcacttcta aattctgaca gaantccaga ttttgccctt 300  
cacatatgcc agtgctctcc aagtaaaaaat gggctctaca ctgggctaga cactcnccag 360  
aangggatgc ccacgccana canctgctcc acttgacgtc cticctcttg cttcttacac 420  
ccattacant gaaaanggtg cgggacccat acaaccagn caggaagaat gacaggcttt 480  
gcaaaccgt ggtcaaaaata aaanccnctc cacancgggg caaanatggc cttgacccaa 540  
acctgggggg ggctgcagct ntncattaaa angttttggc ccaaactg gcc 593

<210> 9799  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9799  
catcactatc atatatatta tgttgtotta ccattcaaac tgttggcact atacctaadc 60  
cacagtaaag aggattatca ttcccataat atgatctttc ttatgaanaa tttggtaaca 120  
gtattctatt gtagttttca tganaaggct tttcctattc accaaattga ctcggttcct 180  
tgtcagtatg aataatgacc caagggtttac tggggatggg gacaatgtag gaagggtccc 240  
tcgcctcatt cagtgccttc tcagaggccc tctccanaac agccatgtgt gacattctga 300  
tgtggtcatt tctattttaca ataataatac tatttttctg ctgcatgcgt ncaacantgt 360  
tcaatccaga acccaccccc caggggggtt tntcacact gtttctctca accgtggctg 420  
ctctgataaa cactgaaaca ctgatttctg aacaaaacct ttccccaaa atccccccct 480  
tgttnggggt tgcncattt atttnttctg cnnattttat ccaattggaa cctttgctaa 540  
aggcctcccc cncctccccc cccctttggg gtccncccc tttttaat 588

<210> 9800  
<211> 416  
<212> DNA  
<213> Homo sapiens

<400> 9800  
ctttctctgc atattattta tctattgctg cataacaagt tagacaaaaa ctgagcaact 60  
taaaacaaca aacatcgatt atctcacaga ntctctgctt ctaggttcac taatgtggct 120  
gtgggcagga nacttcattt ttaccacgt aagtctcttt ataggcctgc tcatagcatg 180  
gcagctagct tccccagag cgagttagcc aagatanatt gggggcgggt ggtggcanaa 240  
aanagggt caagtaaaan ctgcagtgtc ttttataacc taatcttgga agtggcatgc 300  
catcacttct gccatattct attggtcaca aanacaactt tggtagattg tgggagggga 360  
cacacacaga atgtntacac caaganacan ggatcnnntt ancanctgta ttattt 416

09629469.07300

<210> 9801  
<211> 402  
<212> DNA  
<213> Homo sapiens

<400> 9801  
gaagctttta aacaatgagc ttactgtgag caaacagaag caaggactcn aagagataat 60  
tagctcatgc atctgggtgct ggctaataat ttccacatga atgaanaaac cactctatgt 120  
taactgtatt tttttttaa aaatagtttg aaatggtaat aaaatgcaat ttccanaanc 180  
atcttgggtga tcgagtaaaa ctgcttaatt taaaaataa ttccagttact tccacctggc 240  
ctgggggtgga taacatgtnt caaaaacttc cntcccacta aattctggca aatggattga 300  
tctttcncaa tatatatata tatatatata ttttncncca tttcctcctn atggaanccc 360  
naaaaccagg aagaaccncc cgttttgaaa aaaaaaatgt tt 402

<210> 9802  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 9802  
ggtatcagaa cataactatt ttattacaaa acttaacatt atttacaaaa tgaaaaaata 60  
atcnaatgac tattgcaggn caaagttaaa ggtttttcac tcnatgattg aagaaaaatt 120  
aagcaatatt tccatgcact cacaccagat catttctgaa atatgcaaac tcttaaaatt 180  
catgttagta aaactttaat gtattcataa tacttgctat gtttattaga agatgggtcaa 240  
aaaaaatcca tggttctgta caataatatt aacagtttgt tcattttcct ttaatatatt 300  
ttggcttcca tgaacactcg tagattgaac attctgcaag taagaattat aatagtacct 360  
ctgtcccctg ctgaattcnt cnccacaaga aaaacacaaa tagtttaatg cttttgcaact 420  
aaactgaata attattactc ccaaattntt ttaactgaan cctccttgn tantcaatgg 480  
ntggattctt tnaaacnntt aa 502

<210> 9803  
<211> 608  
<212> DNA  
<213> Homo sapiens

<400> 9803  
gggagtatta tttattccaa taaacaaaaa tgtttttattt cccnttcaat ggtatatatc 60  
ttaaattgct ggaacataca agtatnaaaa taagattatt ttagaaaact ccagttttga 120  
agggcncgac aatagttcag acatttgtca gtagctatga agccactttt aacatggaat 180  
gaatatccct ttactccaac tcttgggtctt attacatttt taaatcaaat cagcgtgctg 240  
gaaatagaga aaaattccca aagggaata taaaataatt ttaagcattt tcagaaatac 300  
aagttacact taagaaactt gtatttaaagg atgttaatct gagataaaca gaaaacaaac 360  
gttttgcaaa gcactacttt ttgcatctgt ttgaggatac acagtttgca gctctcctgc 420  
cagaagcaaa atactgactc tagcacagca gaaaaggctc nactttaaga aaaaaatgan 480  
tggtcgtctt ccatgactga acataacata ttaaaacttta agaattttta caatgccaat 540  
taccaccata gtanaaaata ctctttttan aatacaaaan tccnctttnt ttncctttaa 600  
aaatctcc 608



<210> 9804  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9804  
gagacagagt cccgctgtcc caggctggag tgcagtggcg caactatggc tcaccgaagc 60  
ctcagtcctc caggcccaag cgatcctccc gcctcagcct ccagagcagc cgggactatc 120  
agcatatgcc accacaccgc gctaattttc ttgattttct tttcttcctt tttttttttt 180  
tagtananat ganacctcac cctgttgccc aggctgggtcc cgaactcctg agctcaagtg 240  
atcctcctgc tttggcctcc caaagtgtcg ggatcacagg cctgagccac catgcctggc 300  
ctcagagctg tttttttctg ctattggctt ctagttttat ttcactgttg tcagaaaaga 360  
tacttggtat gacttcagtc ttcttaaaact tgtaggact tgttcgtgac tgttatggtt 420  
tgaatgtttg tcccctccta aacttatatg ttggagattt aatcaccaat gcaacagttt 480  
tggggaaggg angcctaag ggaagtgtta ggtcatgaag ggctttaacc ttggtgantg 540  
gaataatgcc gcnccttgaa aaaancnaat tggnaatggg gttccncc 588

<210> 9805  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 9805  
gactgaattg aaaatagttt tatagcagaa aactgagaaa caagaaaaca ttaaaattgc 60  
accacagaat ctgaggtttc aaagatctgt ttgaaatatc ttcatttcac taatttgaaa 120  
tttggggcag gatatgatct taagantcta aacattcaag anacgagggc aagaaagcca 180  
gtcacatgtn gaataccaag tccaaggcac gcgtcctgcg gtcaggacag tgttctaggt 240  
gtgaactcac ttaccgtggg gcctatgaan caggagtgtg tggccttcna anttcgaatg 300  
tgttcatgtg ggtgtgtagc gtgtgaatcg gacatggaaa aaaaaaatc ccctatctgc 360  
ccagtcaaaa ataaatgtnc acctgaaaat cagatgcaac actaacttgc aaagattccc 420  
acaacataaa aaaaaaatga tgctttcatg ttgctgggcc gtggacaatg tggaaaaact 480  
gaagcgtttn cngcgtgtt gtcaaaacaa ctcctntnca aacanggggt ngaatttngc 540  
tt 542

<210> 9806  
<211> 577  
<212> DNA  
<213> Homo sapiens

<400> 9806  
ganacagggt ctactctat caccanact ggattgcagt agctcaatca cggctcactg 60  
aagcctcaac cttctgggct caagtgatcc tccagcctca gcctccaag taggtgctgc 120  
tataggcacc catcaccaaa cccaactaat gtggtttatt tttgtanaa atggggtttc 180  
actatgttac ccaggctggt ctcaaatcc tganctcaag caatcctccc accttggcct 240  
ccctaagtgc taggattaca agcatgancc actgcacctg gctgacattt taaaataaag 300  
gttaagtgtc atggtctgaa tgtttgtgac ccccaaaatt cctgtgttga aatctttacc 360  
cccaaggtga taacactang anggtggtaa gtgagcctgt aagcctttgg gaagtgatta 420  
anggggaagg gcctcctgaa anggattaat gcccttataa taaaagcctc anaaaactcc 480

09629469.072300

ctccacctat ctaccatggt aaaatcccca tctgtnaanc aagaaaacaa gntccaccaa 540  
anaccaaadc tncgggcacc ttgatnttgg acttnca 577

<210> 9807

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9807

gtttgcttta ggcttacact gatctttctt ctctagtttc ctaagatgga aacttagatt 60  
atgaatttta aatcttttta atctcttcta atataggcat tcaatattat aatttatctc 120  
caaccactac tttcactgct toctataaat ttgtatacat tgtattttca tttttattta 180  
gttcaaaaca ttttaaaatt tctgttcaga cttcttcttt gaccatctg gtatctanaa 240  
gtgttttggt taatctccag ttactttgag atttcccatc tacgtttctg tttttgattt 300  
tggttaattt cctctgagag cacactttat atggtttgta ttctttgaaa ttgttaaggt 360  
gtatcttaag gccaaagtat tagtctatct tgggtgctctg ggatgaattt ctgcacagat 420  
gcaacctctg tgggtggaac caggatgaaa ntatatgcat ctgtgaaaaa ctggccttcc 480  
atctgttttc tgatgcaacc aaaatgcttc agggctcgtc ttatctggaa ggttgaatgg 540  
ctacaaaact ttanggggct cngttaaaa ctcaaactga aaaatcctgg tccccgntcn 600  
gnantctttt 610

<210> 9808

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9808

agtttgtttt cagtanaagc aaggctctac tatgccgccc aggcaagtct cgaactgctg 60  
ggttcaagta atttaccac cttggcctcc caaagtgtg ggattacagg catgagccat 120  
cacacctggc caatttttct aaaagtctga aattaagtca aaattttgaa aaagttatag 180  
caattatggc aatctcaatt atgggtaaat gtgtgtcaca ttatctcctt tacattttta 240  
gtatttcata attaaaaaaa aaaagcagan aaaattgttt atcagaggaa acctcanaag 300  
anatgaggca gtcgtcagca agtanaangc tccctttcag gaaactgaaa ccgggtgcca 360  
agtggctgca naacgggtga nanttagcc cccacctct cactggaacc tantgacccc 420  
atgcanataa caacctgccc aactcttcac cctgacctgg catcatattt atctataact 480  
ggcagttctt ctctgacggg ataaattaat aaacnttaaa acncccttaa aattttttac 540  
ctgttggtcn cgccgggtnt gccnntnttc actccccctt tgt 583

<210> 9809

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9809

anataaanag ttttgctctg tcgcccaggc tggagtgcaa tggcatgac ttggttcaact 60  
gcaaccttcg cctcccagg tcaagtgtt ctctgtcctc agcctccgag tagctgggat 120  
tacaggcagc tgccaccacg cccagctaat ttttgtactt ttagtaaagg cagggtttca 180  
ccatgttgcc caggctggtc ttgaactctt gacctcagg gatccaccg cctcagcccc 240

ccaaagtatt	gggattacag	gcatgagcca	ctgcacccgg	cctaggcatc	tttattttcta	300
tgtatagaaa	gccttcctta	atTTTCCCCC	caaaganaaa	ttattgttta	gtatttttgaa	360
tgaagancic	agtttagcaa	tttaaatcaa	gaaattatac	aaattgttcc	atggagatta	420
aaaagaaaaa	ggagctcagc	ttcncctaag	tgacataagc	ccaatataaa	anatatgttg	480
gatatcttga	anccactcc	ctttanaatc	ccctccttct	ttaaaaacat	aatgtttaat	540
tccaaccctg	aaaccnccat	tatgattnaa	attaactttg	aaaaatnatt	naactttgaa	600
ac						602

<210> 9810

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9810

gttcaaaggt	tttactgctc	atcctgagaa	gactgtacat	actaagaaag	taacaacctg	60
gggaaatggc	tgaagttcca	aaagactcca	gacttcttac	aggtttcatc	tctcttctgt	120
ggccactaac	ttcccaagga	ggcagtgccc	aaaagccctg	tggttttttg	atccgttgta	180
cttcgatagc	tcctcctttc	cctagatcca	gcagaactct	agacatgtna	gacatagttc	240
acaaaacaac	agttatgaac	caacaaatac	ttggctcacg	gttatgagcc	actgaagtcn	300
gtcagactta	aggacaacta	gacagagctc	ccattttctg	tcattctgggc	aggaaccaat	360
ctcctgttgt	ataaaatgac	cttctggtag	tttctgggaat	cttgcttctc	catctgttaa	420
gtgaggctaa	taccgcttac	tcatagtttg	gttgtgaaga	tgaactaaga	acatgacata	480
ttaccgtttt	aaattgtnc	acanacctgc	tttaaccaa	tgccgcaaat	ctccggtttc	540
ctcnacatat	aaaaaacaat	tctnactgcc	agggntgaaa	cccccaantt	ncctaaacaa	600
aaaaa						605

<210> 9811

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9811

gaattctaaa	ataccttttg	attatataaa	attacattgt	aaagttacaa	atgttgctca	60
ttcttgagaa	atgtttgaat	gtttaaataa	tggtgccata	atacatatta	tttcacgaca	120
ttaaaaaaa	caatgggtga	tacaaggat	catcatttta	agggtaaaga	nataaagcaa	180
gtacatatac	aaatccactg	gaaaagctaa	gtttggagct	gatttcctct	cttgaattgt	240
aaaatttcag	taatacacag	tcactatcta	ctgctggaat	aatgcctgag	caatttaggt	300
aaagatacaa	acaataacaa	aaaccctgcc	caaataattca	aacttggaga	attctagtta	360
aaataataga	aaaatataaa	atttatcctt	ccaaaaaaag	gtatctaaga	caaaggata	420
natacccat	gtaaattatc	acaagtcata	tgtgaatcaa	ctttttctgt	attccttaaa	480
gttggtcaat	cgactgatga	aaaaacaagc	tcntattcaa	aaaaactttc	aaaacacacc	540
tacnantaac	ttattaatgc	cgaaatttnt	tttaaaaaac	agctattccc	tganttcctt	600
aaggaaaat						609

<210> 9812

<211> 468

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 9812

gttttngtan	aaatanggtt	tcacatgttg	aacangctgg	tctcgaactc	ccggnctcaa	60
gtgatctgcc	tgccttggca	tcccaaagt	ctgggattac	aggtgtgagc	cacgcacccg	120
gntggatttc	aatatttgtt	agccctataa	gaaaactgtc	tttcacctcc	tccaacaggg	180
aaagggagac	aganaaatct	gaggaatgct	gataccagan	aaagtcctcc	aggggagcan	240
aagcagatgg	agggtgtgctt	ggtcacaaca	tantctcgac	cattctgaca	cacggatgac	300
ttgcgtnncc	gcagaaactg	ttctttgtag	cccaaatgc	agccatcttc	ataatcttca	360
nggtctgtgg	agtgtgcca	ccatattgga	tagtccttct	cttcctaaa	ngananacac	420
actgttcang	aaagtaccag	cacanaaccc	ccacgggaag	cantgcca		468

<210> 9813

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9813

gaggtttcac	acaaacagca	tttattatta	atttgcttcc	atganaaaac	accgttacat	60
cagatccctg	tggacaagct	gctaccaggt	acatcttctg	tcttctgttt	ctgcttctgg	120
ggacattana	cttcctatgg	actctcctaa	gcctcctaag	gcagttggnt	gatggcttcc	180
aaaaattgtc	tttctgccct	ctccactctg	cctctcctgt	tttgacctct	gtcttcctcc	240
ccatgacagc	atgagctcag	tgaggacagg	gacttttgtg	atcttggttg	caccccagtg	300
cctggaacag	gctgcanact	cctgtanatg	tgagacttct	cagggccctc	cacacccttg	360
gtgttttttt	tttctccccc	nattgttgaa	gttttttgc	gaaganagtg	tttcacgtcc	420
tgcttatatt	tttatttgaa	gtgtctctga	tatanattatt	attatcattt	tonaaatntg	480
gccccgatna	ttaatccgga	aaacaaaaac	ttaaaatttc	ctacccttac	aattccattc	540
aatntanttn	cctttttgaa	cccgtccccc	ctgttt			576

<210> 9814

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9814

gtttttgatt	ttaagaagga	attcttttcc	aaagttactt	ccaagtaa	tacatttcat	60
gctgggatac	ctgcttatgt	gcacacatt	ttgacaaagg	gcagtggctc	gctaacacta	120
acatgaattt	aaggncagc	atcattgcaa	tttgtcactc	ttcatcctca	tcctcatcat	180
aataccgatt	tctctttatc	tgttcttcca	cagagagctc	tttgaccact	tctccctccc	240
agagttccac	atcctgggat	ttctgattct	gagtagtgaa	ttcttcanca	aagggtgtgt	300
ctacaaaact	cgaccaattc	aganacttgg	gttcttgtgg	agatngttgt	ttgangaanc	360
tgttatcatc	ttcatcgga	tctgcacat	tttctacaan	aatctcattc	tcctctccaa	420
ctatgacntc	cctaattctc	tccccgtctc	tccttaaaat	ccttgtttgg	ccagtttttt	480
tncccatcc	catnctcctt	naaaccttgg	gntttccctt	nttcnntttt	gn	532

<210> 9815

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9815

aaaaaagtac	attccoctgt	ggagttttat	cttgttttta	aaagctgctc	ctgcagcaac	60
atcttggtga	aacactgctg	ttttagggtc	cacagcctaa	gtacgggcaa	agtgtctttt	120
ttagtcatca	aaatacaagg	gtttccctgg	acacttggtg	accaagcagg	ttttaaaagt	180
cactattgtg	tccaaacact	aggaccgttc	agcananctc	tgaaaagggc	tgggttcagt	240
tccatcctcc	gtgctactgt	ctatgtcctg	ctccattgct	gtctcctcat	catccanctg	300
ttgactantg	aanttgttta	gctcaagaac	ccactgggct	ccccaccaca	ttgganctgg	360
agtgacaagg	aatancaatc	tgaggaaata	cccgggaatna	naattctgct	ggaatctctc	420
caccttcctt	tggccaaatt	ctnaataccc	tgaactggcc	tttccangcc	cgcgggtgga	480
atcaattttc	cctgntcttn	ggggaaaaac	ccccnntgga	tggacnccaa	aaaggaa	537

<210> 9816

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9816

aaatananat	gangttttgc	tatgttgccc	angctggtct	cctggactca	agcaatctcc	60
cacttcaggc	taccaaagtg	ctgggattta	caggcatgan	ccacctctcc	cagtctcagt	120
tattatttta	ataaatgana	ctgaacgtcc	tcttataagg	ctcactccct	tgttcctact	180
acatttgctc	tgtttaagta	tctctttaaa	ttcttcagtt	aanatcatcc	cttttatcag	240
aaacctagac	accacaaagt	agctttctca	cctttaattc	tccataggga	tcaactattat	300
actataatat	ttgcatacgt	atgtgtatat	atgtatttgc	ttttttaaaa	aggtaaaaaat	360
gctcttctca	ctctttgtcg	atatangcac	ccangttacg	ttatttagaa	attaaaaataa	420
nggcacaata	anttccccag	ggaagaatcn	ttaaaaaana	aaaanccttc	ctccccctaa	480
tatcacataa	cttggcctta	ttggcntgcc	cacctaaaaa	aaaaagggtt	gncctatngt	540
taaangaaaa	aaccaacctt	ncccncttng	ggt			573

<210> 9817

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9817

gttgtgtctt	tgccaggttt	tggatatcagg	angangctgg	cctcataaaa	tgagttaaag	60
angatccctc	ttttttctat	tgtttagaat	agtttcacaa	gggaatggta	ccagctcctc	120
ttgtacctg	tgatanaatt	cagctgtgaa	tctgcctggg	cctgggcttt	ttatgggttg	180
gaggccatta	attactgcct	caatttcaga	acttgtgaat	gatctattca	gggattcgac	240
ttcttcctgg	tttagtcttg	ggagggcgta	tgtgtccagg	aatttatcca	tttcttctag	300
attttctagc	ttatttgtgt	agaggtgttt	atagtattct	ctgatcgtn	tttgtatttc	360
tgtgggatca	atgggtgatat	cctctttatc	attttttatt	gtgtctattt	gattcgtgtc	420
tcctttcttg	tttatcaatc	tggctagtgg	tctatctatt	ttgttgatct	ttncaaaaaa	480
ccactcccgg	aatccttgaa	tttttgaaag	ggtttccacc	cccccccncc	nccattcngc	540
ccgaatctan	ntaattcctg	tctccgccan	ctttt			575

<210> 9818

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9818

acaatcttaa	aactacaaaa	tgctgtcttt	ctttctttca	gaacaggtgg	gattgttcct	60
ccagcagctc	aacagcttca	caganaaaat	attcaacgaa	tagtacaaga	agctctttct	120
gccagtggan	tctctccaag	tgacctctca	gcaattgcaa	ctaccataaa	accaggactt	180
gctttaagcc	tgggagtggg	cttatcattt	agcttacagc	tggtaggaca	gttaaaaaag	240
ccattcattc	ccattcatca	tatggaggct	catgcactta	ctattagggt	gaccaataaa	300
gtagaatttc	cttttttagt	tcttttgatt	tctggaggtc	actgtctgtt	ggcattagtt	360
caaggagttt	cagattttct	gcttcttgga	aagtccttgg	acatagcacc	angtgacatg	420
cttgacaagg	taattaagaa	ttaaattctc	ccatcctttt	tgttatgttg	tccattccac	480
taanttacaa	taaaatttct	nccccatccc	ctaattttct	naatttttct	tataactgaa	540
aaaatccctt	ttggtganaa	aaataaaaaa	t			571

<210> 9819

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9819

aaatttctaa	ataggtttta	ttttggncac	catcatttaa	tgacattcaa	ttaaggattt	60
cttgaacaat	ttctacaaaa	aaaataattt	cctccnccaa	aacattgaaa	aaattgaaaa	120
ctggggtcct	aacagttgca	aaacaagtct	acaccattcc	ttagtatgaa	aaagcaacca	180
taaaaaaatg	gagcatcaaa	atatttttatt	tcaaatttat	tttatgccag	atccaagctg	240
taactggaac	ctattcccag	tctatgggtt	tctgaatttc	attttcctat	ttattgtatt	300
tttatgagaa	acttgttgta	atgagtcctg	accactttat	ttgacattta	ctaaagctgt	360
ataaaagcca	tgcacagttt	atttacagta	ttgtacatta	aatgataatg	tttgaagatc	420
acacaaagat	ttcacaaaac	tataactaat	acagaaagat	gtgtgaaaac	attaaggggc	480
ttccaaantt	taaggttgga	aatttggcna	aaatatttng	gcttataatn	tttggggcanc	540
cctaaccgga	aataattgac	aaaacctgcc	naaaaatacc	cttccn		586

<210> 9820

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9820

catgattcca	ataagcttta	aatcaatagg	caaacacttc	tcattttatga	tccatcttgc	60
tacaggtggt	tatgtganaa	nacacagtgt	cgccaaagct	gacctagtat	ttaggtccct	120
anagggtattg	ctgatctgct	aagagaaaata	attaaaaaaa	aaaaaaacaa	aaaaaaagga	180
caaccataca	ttttggtagt	cttttaaaaa	aagctactac	aaagatatca	ataaccatcc	240
aaaaatcact	taaaatttta	tatcccttaa	tttccaaana	cactttgtga	tctgactgtt	300
cttgaaggaa	agcctanaac	tgaaaactac	taaaacttgg	ctcctctcta	ggaaatgtgg	360
aaacaggttt	tctgcaaagg	aaaaacttga	caagggaatg	ctacaaaata	ccantccctt	420
ctttaaaaac	tcctcccacc	tctcctgctc	catttnatgg	aatgggcagg	ctggattcaa	480
aaaggccctt	cccaaggaac	tgtttaaatc	ccncnaaaaa	tccctttcca	anggattcnc	540
tttgaattta	aaaaaacttc	aanntttnt				569

<210> 9821  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 9821  
aacaatgaat atgcaggatt tttattaggg naagcgtttc cataaccata aatattttctt 60  
taaaacaaat aaatgtccca agatctctgt tagtgatcca aactaaggag aaattagtaa 120  
aattaattat aaatgaacaa tttcagcata taaaccaaca agtcttttct agatttttaa 180  
cactgtgacc caattgcatt attttccaag ttagaatgac taataatcaa tgaatgtaaa 240  
agcaataatt aatacagatg acattctact tttccacagt aaagaaataa acaatctaata 300  
atttttataa atcccatttt atatcacaaa ataaccttta ctaagcaaata ttttttaaaa 360  
tctcaggaaa ggaaatgtaa aatccttatt tgagtataag aaaatgctat aaagcaatga 420  
gtnttcaaaa tacagaagaa gtattctaaa acaaatgaaa aaccnagatg atgaaatagt 480  
gacactactc naatgttttc ananactgaa atgccagggg aaannaactg aattattcct 540  
taagccgtgg aaaattttac tttcaaaatg canaa 575

<210> 9822  
<211> 458  
<212> DNA  
<213> Homo sapiens

<400> 9822  
attgtaaaag ctttttattt tagtaaaata tacagaagtt ctttttctga actcattttat 60  
gatgatacca acctgaattc taaaacagct tcctgattct tggacactgc tgtcaaaaatg 120  
acattcagtc tgcaacagcc ccaagaagca agggcaaagc caggtgctgg ggggcctggg 180  
tcctcccccna nccctgaaag tggagtaaag atgtttggcc caaaaaaggc tgggggtgcaa 240  
agccagggtca ggggaaagca nantccgctg ggccttgtag gggggtactg gtgccaggct 300  
tctctgggac acccccaccg aacangcaca ggggccacgg ggcacaaacc cactgaaagt 360  
nccgtctcca ccaccanaa gctttattta caantnaaca cactggtctc tgtnaactgg 420  
aatcctgaag catccacact cnaaaactna aaaaaagt 458

<210> 9823  
<211> 505  
<212> DNA  
<213> Homo sapiens

<400> 9823  
ggttattcac aagttttgaa cttcattcct ctgggggtgat tattttataaa gttaaacaca 60  
tccaaacttg ttgtgttaca ttattaaatt aaatacattt ttctttttga agagcttcag 120  
tagtctgaaa taacaagtga agaaatttgg aatcaaagaa acacaagagc taatcatata 180  
atgatcttgg ttgggaatag aagactctta tcaaaaaagg gggaanagggt acattgtgct 240  
ataaatttaa ccaatgatgt gtaacactga caaccctttt taattagtca ttgacatatc 300  
aactagtgat tcaagggtata ttgtcctaaa atacacatcc tgtatattat ctgccatata 360  
atgatgttag atttctgacg gaaatctcta aaatactcct tttcacaggg cttattttgct 420  
tcntgtgttc tttcntattt tgangaaaan attctaatta ctttttcnta attttaattc 480  
natatgaatc cccccgaaga naagg 505

09629469.072300

<210> 9824  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 9824  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 60  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 120  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 180  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 240  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 300  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 360  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 420  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 480  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnn 538

<210> 9825  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 9825  
aaaatcaaaa tgctttttatt atgggtcaaaa tcagagccat tgagtcctaa cagcttaaac 60  
tagatataga aagcagggca agtagtgtaa aacctccaca ttttctaggc ccttcttcat 120  
atagcagttt gattatactt caatttggtg ttaagaggac aataatacaa agtaaatgtc 180  
cacaaaggac caaaacacca aattttccat gtccaacaac tctctataat taatctacta 240  
tgtagctagt gtccacgcca aatgttcagt tcttaacatt cgccaagaag gaatgggaag 300  
aaacagatga gtgacttcag atagggagta cacttttctt tcttagtctc catcgaacaa 360  
tctcactttt ttaacagaga atccccaca gctacatcca agttaagagc aaaatgctta 420  
cacaaaacca aaagacaaat tactgtaata ttatagttat catttctatt ccttaacata 480  
aataatcnaa aagtgactgt ntanancat taaatgcaat chtccttntt tctgcccgtn 540  
aaaaaatgcg ccttaac 557

<210> 9826  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 9826  
gtttggtaga naagagagtc ttgctttggt tcccagactg gtctcaaact cctggcctca 60  
agcaattggt ttacctcagc ttcccaaagt gtnaggatta caggcatgag ttaccatacc 120  
cagcattttc ttaatccttt tccaattang aagcaaaggt ttaaacctct agtttgtaaa 180  
agatggcaga gtttaaggaa aagccatata acagaggtac tatgttactt ccanagcaaa 240  
gttatTTTTc tcctcaccac cccccaaaca ttttactaca ataatttcca gacatacana 300  
aaagttgaac aanttgaaca atgaacattc acatgcccac catctagtgt ctataactaa 360  
tattttgccg tatttgcttt atcagatatc tatccaccta ataacgtaat ttttgatat 420  
attacanagg gaagttacan acatcactta ngttttttaa aaaactanaa aggcaattat 480

0032/0-69462960



tttctgttat gttggctaag anaatttaaa ataattaatg antaacnttg tntccaagtt 540  
ganatc 546

<210> 9827  
<211> 448  
<212> DNA  
<213> Homo sapiens

<400> 9827  
cactgcagga tttgtttatt tcacactcac ccttgaggcc cggcccgccg cctgcccctc 60  
cctctccctg cgccggggcc gcggagctgc agagtccgca gaggggtgga ggcaagagag 120  
gggggcagtg tgtccaggac cgagcgggtg gggcgtctgc agaggggtgag agcagcgagt 180  
ggtctcaggg cgcccaggac tgggtccgat gccatcacag ttcccaactc ggtaaagacc 240  
cggggggcaa caatcccaaa agaaggcact agcactcggg gcgcgcctgg acaccccccc 300  
ccgttccctc tcagagcgct tacgtccacg gggacggggg agagaagtcg cccaatcacg 360  
ccacgagcgt angcctccan ggatgcggct cgcgcgtgag cttgagggta tangtgcgca 420  
ngcgcgggca ntgcgcgcgg aangcnc 448

<210> 9828  
<211> 481  
<212> DNA  
<213> Homo sapiens

<400> 9828  
cactattttg ggtttttatt ttgttganct tggttaaatc ttatctcttt ttttatacac 60  
aatacttcat gtncctatga aataaaacag gtagggaata tgtccagtgc aaacaganga 120  
ctcacacctg tncatagaca gcacatcca ctgattgtcg ctgcagtcca cggcgttact 180  
aagcctgcgc caccacagtg ctgccccagn aggcgctacc aggctcttcg ggccacaggc 240  
ctctcctcca ctgcatgttg cggcagggcg ggttaggtcn canggtcca tnattgtggg 300  
gcagcttcaa gggcacatgg ggcaaaagcc ctcaangtc cctcctcagt anggggatgt 360  
cattctgata atactgggat catgttgtan gtcccgctcc tgttgctgaa gaaaacanct 420  
ctggatnacc ttcatnataa aatttgcaac ctncnccctca atcatnttgg ggntaaacct 480  
t 481

<210> 9829  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 9829  
gcccggccag aagttttatt tccaaacccc aggaaagcat tacaaataag anatagaaac 60  
ccaaattaag ctctgaaaca actgggagac aggctgcct aggtgatcag gancatccan 120  
gcagcaggga tgggaagcag aaganatgca ttctggatag ggacctcacc ccagagcctc 180  
agtctgtaca tacntgtgac tattcaggga cggggagttg anaaccagaa acccaccaat 240  
cctagtgttg ccctgggttg gaggcagana aagcagcagc acgtgaggtc aaggacatta 300  
ccaagtctga ccttggcatt tgttgccctg tctcatcccc aacagtccat aaataagtta 360  
tccancacat ctganggtg gangcggggg gaacaagcca actagccata ncctctggaa 420  
aaaagggcag gccacctggc actggggcag actacacana atgcatctga ctctgtcttc 480

cgncctctgcn aaactccccg gntnggcgtc caaattingt cccnccccg cctt 534

<210> 9830

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9830

gcacataaaa	acatcattta	ttgttagaaa	tcatgacatg	atacaaagtc	aaaatccact	60
tgtgtcttgc	taaagactac	agaaagccat	gctcagcagc	ttcttctcca	atgctggcca	120
gcagcgtacc	tttccaagtc	acaaagcagt	tcatcccgcc	ctcaaggagc	cgacagggca	180
gcccanaacc	tcccactgac	aagtgtgggc	accactcaa	gatactggga	aagatccctg	240
ttctagcatc	acattttaat	cagatttgct	aaaatcaggt	tgcttggggc	aaaggctctt	300
tcaccgaggg	atgctagtcc	tggaanaact	ctccttcggc	gaanccgcca	gctcaatctt	360
ctgaaccagg	ctcacatccc	agggatgggt	ccaaaactga	tgacgggtgc	tgggcaactc	420
gctccccaca	agggccatct	ccctgctctg	tggatgttat	cttgcanctg	tggggggaaa	480
tcatattgan	aaccnctccc	cncatttgct	gttcancccc	aaaagntatt	tnttttc	537

<210> 9831

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9831

gagacggagt	ctcgtctgt	cgcccangct	ggantgcagt	ggcgccatct	tgggtcactg	60
caagctctgc	ctcctgggtt	catgccattc	tcttgcccta	gcctcctgag	tagctggggac	120
tacaggcgcc	cgccatcacg	cccggtaat	tttttttgt	atttttagta	aanacggggt	180
ttcacctgt	tagccaggat	ggtctccatc	tctgacctc	gtgatccgcc	cgcctaggcc	240
tcccaaagt	ctgggattac	aggtgtgagc	cactgcgccc	ggccaaggga	ggtgatgtta	300
aactganaat	cataaaaccc	attaagaatt	cataatcaca	gcagaagcat	atctatccat	360
attctgtcct	gagactgaaa	tcattatata	cacatataag	ttaaggatct	aacaantttt	420
aaaatatact	attttattgg	aagggaanan	aataaccaan	aaaaantgan	gacctnaact	480
gctcctccag	gcntttttcc	ttttggaaaa	tttcctatn	aagctggcct	taattttccc	540
ctttactt						548

<210> 9832

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9832

cttattcagt	ctccgtanag	actgtcaaaa	attgccagcg	ctgattatat	ttcaagtcac	60
cacgggtggg	tattgggaaa	atttccaatt	ancaataatc	gcgtctcgga	taaatctcat	120
tggctacgg	actgccactg	caaagctagc	ttgacgtagg	actttgatgg	tcatgtntaa	180
cacctcacag	gggcagaacc	tcctccatcc	ccgactccaa	agactcatgt	natcagtacg	240
caagaaagtt	cananatgan	acctctgggt	gtattccacc	tttgggacat	gggggatgtc	300
tttagttcaa	agtcacaaat	aatgcaggt	tctacaattc	agangcttca	tatccctgct	360
ggagtattac	atgtttattc	aggatggacc	acttttctta	gcaacagttt	ctaaaccttt	420

gccangtctg	ggaaatcttg	gcaggaaaaa	ttctaanaaa	caatcatcct	gcacacactt	480
cctgaaaaan	aataatacatt	aatcccnaat	tatcccctcc	caaggttttg	ttggcccatt	540
ccatanttcc	accatctttt	ttggnaaaanc	cccatttttt	n		581

<210> 9833  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 9833						
ggatcaggag	tcttattctc	tctttggaat	gactcccaga	acagccactt	atgccagaa	60
aatccatgat	cccattctct	ccatgatgga	ggaagctgag	gaccagagag	gggaagggag	120
tagactaagg	gagtagccag	tgcatcccag	gagcaggaca	gaatctctga	cccctgaccc	180
ctagcccagt	gctccttcca	ccacccctgg	ctgctccttc	atggaccaat	gaggtgacag	240
aggcagggcc	tagttcacag	gctgacaaga	atctgcggat	gtcctcagat	gtcccacaag	300
gtctcctcct	gcagacgccc	aaccagacc	ttgtctgctg	caatatcact	accagtgttt	360
gcagacctcc	agagacagga	gtctcaccac	ctcgcaaggc	agctactcca	tcctgaccct	420
gtggaaggtg	tgcaaattgt	gggggtgggtg	gggacnnnnn	nn		462

<210> 9834  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<400> 9834						
gttgatatcg	agttttattga	tgagccattt	accttcagat	gccatactcc	agtttttagct	60
tcgactatct	catttctacaa	aagttcacca	tcttcaaaat	ttaaacaatag	acttaccatt	120
tgaccagcaa	ttccacccaa	gagaatcaaa	aacatctatc	cacacataaa	tttgtacaca	180
aatgatcatg	gtagcattat	ttatcataga	caaaaatgaa	cagaacctag	atgtccatca	240
gctgatgaat	ggataaagaa	acatggcata	tcatacaatg	gagtaatttc	ggccataaaa	300
agaaatgaag	tagtactgat	acatgctata	tcatgaatga	accttgaaaa	catgctaata	360
naangaagaa	gcaganaggg	ccacntattg	tatgattcca	tttacataaa	attcccccat	420
ccntagagac	agaaaacaga	ttantgttta	ncgc			454

<210> 9835  
 <211> 374  
 <212> DNA  
 <213> Homo sapiens

<400> 9835						
ggtaaangca	ggatctcact	ttgtgcttag	ggtggtattg	aacttctggg	ctaaaganat	60
actcctgact	tagcctccca	aagtgtcagg	attatagcag	ggagctactg	ctctgggtca	120
gcttttctgc	taaaatgctt	tgctgangtg	gaaatganga	nggtgaaaca	ntgggcgggc	180
atttgtttta	caaaggctct	acctaggctg	taccatctgg	tgaagtgttt	gtaactttta	240
aggtggaaac	natgccattt	ttcctttatt	ctcccgtctg	taagaccana	aagcaattgg	300
angatcctcc	aataccangg	anaaaccang	tttcaaaaaa	aattttttng	tnggaagggg	360
aatcaaacc	aaac					374

00629469.07860

<210> 9836  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 9836  
atggctat tcttaat tttt attcatgtaa ttaccaaagc tctgtattct actaagggtac 60  
acatcttattc ttgtatccat ggacgctcct tgatacatta tggatcatc cagcaagtaa 120  
aaactaagca ggacaggcaa gaaagcaaca ctatgacagt aaaaacaata tggatctac 180  
ttttgtttcc tttaaagggg aaagtgttct taataattac tgttggctca cagaactaaa 240  
gaaagtatat tagaacctca gtattcttaa caatgatctc tattggttgt tatttgtcta 300  
agaagtgata agccatataa ttacagaaa gcaagtcact gaatccttca aaaaacacaa 360  
cctggcaatg ttatcttcaa tgcaaaaataa tgaagtggca ggancgtgat gaaaaaaaca 420  
gtcttcgaaa acatcatgtn aggggaaccan ctgtgcttgt atagtctcta acttgttata 480  
naaatcaaac aactccctgt gactgaattc cccaanaact tcccnagcn ccttgaatct 540  
ccttgnctcc ncccaant 558

<210> 9837  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 9837  
aaggataagc aagcttttat tccgtcaaga gaacaaaggt caggactttt atcctgggtgg 60  
ggggatgggg agtccagatt ccttctctga tgaggcaaaa aaagaatcaa gactcctgtt 120  
caagtaaagg gcagagggtg agagctagta ctcttattct agaaaggaag tagatacttt 180  
tctttgataa aggaatgaac ggtagactcc tagtttgagc aaaagggtggg aaagatgtga 240  
cttgtacttt ggtaaggaga tagggaagga attaaggcta ttactctgaa gaaagtggg 300  
gggccagggc tcctatTTTT ttgctgagga gatggaagat cagggttgt attcaataag 360  
aatgggaggg gccagggatg cctggcaaaa gccttgact gtgaggtgca gnnnnnnn 418

<210> 9838  
<211> 592  
<212> DNA  
<213> Homo sapiens

<400> 9838  
gtttcttttn nctggagtt ggagtctcac tctgtcacc aggctggant gcagtgatgc 60  
aatcttggct cactgcaacc tcagcctccc gggctcaagc aattctccta cctcaccctc 120  
ccaagtaact gggactgcag gcacacacca ccatgcccg ctaattcttt gtattttagt 180  
aanacaggg ttacccccg ttgccaggc tggctcctaaa ctctgangt caggcaatcc 240  
acccgcctcc caaagtgtg ggattacagg cgtgagccac tgcaccagc caaaaaagtt 300  
tatctttcat gtttcagata aagccattgc tctaataata ataaaatatg atatgcaaac 360  
aaagtacat tggatgaatc gtacccacca aaaaatagca cttaaaatat gttttgcata 420  
ngtttttcag tgatctgatt tcaantatga tgaaagttaa tggaatagga aattatgaaa 480  
ctatactctc ntatatat taaatgccatg cnaaatttta aatttcctaa ggaattattt 540  
aatgatccca cntgattgcc aatccctaaa attaccgaat ttattcaaaa gt 592

<210> 9839  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9839  
aatgaaatct tatcttttgc aacaacatgg atggacctgg gaggccatta agtgaagtaa 60  
tgatacagaa agtcaaaaac cacatgttct cgtaagtggg agataaacia tgtgtacacc 120  
tggacgtgga gagcagantc atagacacta gagccttcna aggtgggagt ggggtgagag 180  
atgggaaagt atttactagg tacaatgtat actatttggg tgagggtata ctaagcccag 240  
atttcaccac tatgcaatat atccctgtaa taaaagtgc ataaatccat aaaaattaca 300  
aaaagttgct caaaaaagat tggtagtcag aanctgaatt ctagatgtgc tttttcaact 360  
atctcatitt gttaattgtag tgtatgaatc cccaaattta acaatagaca atttttaaaa 420  
taccactgc ccaaatttaa anaaaccgcc ttttaaatat cccatttttt ngccacttgg 480  
gcnccccacc tgaatttcca anggattatt ggttnccnc cccnttaat gtttggctct 540  
ttcccaagcc gccgaaacca aaaagtttcc ttttgannac actccganat ccc 593

<210> 9840  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9840  
agtgggtgcag accactagtc actantctgg tgtctggctt aggtaaatat gtcttcttan 60  
atattctctc atcagaacta cagataggat aatcaactca tcgagtttgc cagggnnttg 120  
ctgggtgtag cactgaaagt ctacatgcc aggaaaacct catcttaggc aaactggagt 180  
ggttgatcac acaacaaaag atgattcttt ttgactcaat cctggacctt ctcatctctc 240  
tgcggtttta agtaccatct gtatggatgg ctgggtgtatt ttgtttcctg ctttgacatt 300  
tcttttaagc tttggattca aaataagttt tgcaccttat ttttaatgcc tatcttatat 360  
tccttactgc ataaatcaga anaatctcaa tattaaataa tctaaatatc aaaacttcat 420  
ccactctgaa aaaacaattt cncctctgga tgctactatc tcattaaata accagccctt 480  
ccaaccaatt gctaaactcc aaaccctgga aaaaaggttn gggatttctt ccttatnccc 540  
tncaaaaatc catttnccn ctacaaangg ccttttanat ccaatatcca aat 593

<210> 9841  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 9841  
actgtataat agttttatit ttctcatttt actattttta cattttatgc acaaataattt 60  
atctgcgtaa aaatagaaaa taactgtttt atgtaaaatt acaaaaaaaa ttaaaaccac 120  
aaagaaatac ataattgtta ttatgacagt ataagtgtcg ttgtcgttat ttaaagagta 180  
aaaatgtatg caaaagtcct cctcccattt acaaaagatt gagaattttg tttttcctgg 240  
cagcaagtga aatattgaag tatcaatat tttacaccct ttagatctga agacattaag 300  
ttagtcacag atttgttttg caattatgaa ttttaaaaca tttttgtgct atttcaagga 360  
tacactantt ctttcttaaa ggcagtagca taaaatgaat atggaaaaca gcagaactcn 420  
cnaaaatatt tgggtggtaca atccttttgt ttcatactga atatcncctt aatcagggga 480

008270.59462950

gaaaacacta acaattttccc tataccttga cggatncaaa attactgtga tcagccatta 540  
ctgaagatca cccnontacc atccgcccct tgttttccga n 581

<210> 9842

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9842

accaagttta taattttatt atactctgaa tagagatgat atttaaggag cagagaaaaat 60  
gactatacna aagattttata gaacattcat ttacatactg gatataattct ttacagtatc 120  
agaaaagtaa aaatatgcac taacaaggca ganaanacgt tacaaggat ttgatgctga 180  
naataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240  
acgttctttt actgagtant tagtaggacc ctggctataa catgcgttgg gcacagttcg 300  
tgaactctcc cgcattttact cccanggca gtacgtgcct gtccagcggg agccctggna 360  
aacaaaatgc ctgggaaaac nttccttttc ctgtggccct aaaaccggtg tccacgggtg 420  
gggggctctc tcacggtttc tgaaccaca gtacaatctg tngatnacac acaccttggt 480  
ctgtttaatg cncatntttc ccaaaaggaa aaaaaaactt cctttccanc tctccaaaat 540  
cgtggaaact ttgcttcctt tggttcccca aaggactnct ncttnggg 588

<210> 9843

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9843

ccacacagaa accaaccaca tttttactgc atctgctcca cgctggattc caacatgctg 60  
gcccggancc tggctggctg gaaacaactc caacaggttt ttcccttccc cgtcatgtac 120  
attatttatt ttgatccta ctactgtcc caagtccana ngcagttaca aaaaacactc 180  
ttgatgcaaa ccgtgagtgg ctacaacaca cggatggggg tgggcgcgat tcccacaaca 240  
gggagtggaa tccgggaaaa taatatatag gggcaanacn ccccttact tgctaaaant 300  
atatggaact caaaaccac aattgctttg ttttgtttct canttcttg antattttta 360  
actacttgct cttaacatta attncgtatt ttccncaaa tatctgacct gatttaaaac 420  
atttttgttt gcatacatct ttttgtnttg ccccttatat ttttcnct gatttnggga 480  
taaaaattta atttctgcct aaaaaaaaaa ccttttactc tttttaaaaa naacctccct 540  
tcccagcnc ttctntggtt cctttccaaa tnttccacca tntttn 586

<210> 9844

<211> 579

<212> DNA

<213> Homo sapiens.

<400> 9844

agaaaactta tttttattct attatattga acacattgta tcacccccac tcatagctgc 60  
actccaaaac agttcttctg ggaagcaggg ttttagtttt actgaacatg aataaaaaat 120  
ccaggcagaa ttcaaaacca gggggaaaaga gtcaaggaag caaacttgct tttcagaagc 180  
aagatattta taaacagtaa tagctgagaa tcatataatt tgtttctgaa aattaccttt 240  
taaatagggc ttcattttac atttgcatag tatatggaat tttgtaagaa gcattaaatt 300

tcaaataact	tgatgcaata	aataatcatg	gaataactcat	tgtccaaata	taacagatag	360
agcatgtcca	ctaagantaa	tgttatttct	cttaaaataa	aggggaaaaat	ctaagttcct	420
tgaagcanaa	actgtgttgt	tgactatggc	agtcccgtgc	ctaccatgat	acctgaaatg	480
antcncctcca	acantgactt	ttgaaaaaga	ataaagaagg	attgaagacc	aatttttttaa	540
ccntncntgg	taggaatttn	ggcgggtacaa	taaaacaac			579

<210> 9845  
 <211> 583  
 <212> DNA  
 <213> Homo sapiens

<400> 9845	
ggaggtaaaa	gtgagtttat
agcaactggg	aaattttatcc
gcttggttgg	gcactcttcg
gaaaggctaa	actagagctc
acatttctgc	tatgtttgtg
taattaattt	cagagctgga
gaaaagcagc	acgaatactc
aggccattta	attgaatcag
taanaatttt	gaaaaaaaaac
attgttaaat	tattatctcc
	actctcctct
	cnattncata
	anc
	60
	120
	180
	240
	300
	360
	420
	480
	540
	583

<210> 9846  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<400> 9846	
acaaccgtat	gaaagaaatt
ttccacagtc	tacaggtaaa
gtaattttat	gcagaagatg
caagacataa	ggaanaaag
aatcatatct	agcagtaaat
ctggccaatt	ttcagtagac
aatgcttcct	ttgtgaattg
ncaatgtntg	ttgttgcaat
gccantgtn	gcaaaaaact
tcnggaaaaat	tttccaatt
	ttgttaaaaa
	aaaccccaac
	cttccg
	60
	120
	180
	240
	300
	360
	420
	480
	540
	586

<210> 9847  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<400> 9847	
ctctaattctt	gacgtcacac
cttctgcttg	atcgattcag
	ctattgatac
	ttctgtatgc
	ttcacgaaag
	tctcgtgctg
	60
	120

008270" 69462960

tgtttttcag	ctccatcaga	tcatttatgt	tcttctctaa	agtggttatt	ctagtttagca	180
attcctccag	ccttttttca	tttttagctt	ccttgcatg	ggttagaaca	tgctccttta	240
gctcanagga	gtttgttatt	acccaccttc	tgaagcctcc	ttctgtaaat	tcgtcaaaact	300
cattctccat	ccagttttgt	totcttgctg	gcaangaatt	gtnatccttt	gcaagaaaaa	360
aaggnttcct	ggtttttgga	atttcnacc	ttttggcann	ggttttcccc	cccccccatg	420
gaattaatct	accttnggtc	tttaatgccg	ggtgaacctc	ccgaatgggg	tttngttttg	480
naaattccnn						490

<210> 9848

<211> 310

<212> DNA

<213> Homo sapiens

<400> 9848

gaagatatta	aaattcaggt	tttattat	gttcagttat	aataatttaa	gttaatat	60
gctgtattct	cagagcaaan	atgtatttct	gtaccactgt	cctgtataaa	tttgttaccc	120
aagatagtga	ctgggtatgaa	aggagaggga	agagggtgac	agatggaaac	gattgctgta	180
ggacagtcca	tctggccaga	tgcgggtggg	gaggggagaa	aaantgggag	ananatggtc	240
ctacanatgc	tcccntgggt	aaatgatggg	tgcacccctc	cctgcantcn	ggctgtgcct	300
gtacttcaca						310

<210> 9849

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9849

cagagcatgt	agcaaattta	ttatccgtgg	gtgagaaact	gttacatgaa	gacacacagc	60
aggggaaaga	antcagcatt	taacagataa	tctgtgcttc	tcagacaggg	gaaaaataaa	120
aacactgtgc	tgcattataa	acagganang	gaagaatcca	gtgaanaacc	cttaaagtga	180
atgtcgtcag	ctaacatagg	catctcatcc	aaagaagact	tcaacagagc	agttgtttga	240
gttttcaatc	atcagtattc	tgagaacttc	aagtgtgtat	tattagtgtc	aatgctatcc	300
atgttccttc	tctattttct	atgatacgag	gaaatcacat	gaagctgcct	taagtgggtga	360
aaataaatgg	attctat	tgcagtattc	ctgcagtcct	ttaaatcaca	cacgaatact	420
gctcccaaaa	ttatcatcan	cttctgcctc	anaccttcat	gaaataactg	aaacaatgtg	480
gggtgtctnt	taaaaaacga	atggctaacn	tccccccntt	caatntttcn	cccccccttt	540
cna						543

<210> 9850

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9850

cccaaggga	gttaatacct	ttactaagtt	acaaaacttg	ggcaaataca	tacagtactc	60
ttttataatg	aaaccatact	tttggtggan	tcatgttact	ttantganaa	ttttcacncc	120
aaaaatat	aantnccaaa	tcaaaacact	ggttttta	ggtggtttat	ancataataa	180
ggtattttgc	acaaaatata	ttttaaaact	acacaatttc	tccttttaag	tgancctcct	240



tgtgcaagct	gctgaantgt	acagcaacag	ggcaatgggc	gtctatagga	ggtggctctg	300
ctctgttctg	gggttgggtcc	aaagtcaggt	gganttccaa	tgtatgaaaa	gcttgaaaaa	360
tctaccttaa	gganactgaa	tatcaatacc	agtttccaag	ganttccttg	tgaaattttc	420
acanaaatac	tggaaccct	caaaatcaaa	tantaatttc	aaacaacatt	aattccaaat	480
aatcctttta	tttaaaagnc	ccnccnctnt	tttaatnaat	tccanaccct		530

<210> 9851

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9851

aatgtggaga	aattttttatt	actttgaatg	ttttagaatg	caggtagaan	agaccocggag	60
ctcaaatagc	ttaaataagt	aggaaatcta	ttggctaata	caactggaaa	tgccggagata	120
gggcaggctg	cagggctggt	ggctcagggc	tcagggggcc	ccaactctct	gtgctgctct	180
gaggcactgc	cttcaatctc	aggttggcag	cacaaagctg	ctganagtcc	cagtgtcacg	240
cccanacccc	acaatgccag	ggaaggaaga	caggttctat	ctaanganaa	atcttccatc	300
cccacctctg	cggactttta	ctcacttctc	agggacctgc	ttgggatctc	aggcccatnc	360
ctnaaccatt	tnttggcaaa	caaaantgaa	tattttttac	accaggcagg	cacccttgga	420
ttgnaagcac	ccacctccaa	ttctttcagg	aaaaaaggga	aantgggaac	tncncaaaca	480
ncaaccacn	tnc					493

<210> 9852

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9852

acacaatata	tgatttttatt	aataaatagt	gcaaaagcat	cagtgataac	tgtttgaaca	60
ttaaattttt	taaacagcca	tgtcttggca	ttagttaata	ttgtgcatat	tggcctctat	120
ggcactacaa	gtaaacagat	gaaaatattg	cccattttca	tgcacaggta	ttcagctata	180
acaccattta	caaatacatta	tgaacaagat	aaattctgca	ataatattca	tttggatggc	240
cacaattaaa	tgagtgttat	atcaagaaat	agcctatgtt	caatatactc	cagatgtcag	300
attgtaaaat	gtaatgttat	ttaaaactta	attctttatt	ttccttaaag	ggacaccttt	360
tgtgtatttg	ggtactcaaa	tgaaaactta	ggaatgcatt	ctttgaccat	aataacaaaa	420
ttcacacaaa	agaagtgtga	tgcttcctcc	tctaaaagaa	ncaatacatt	tgctcataat	480
ctctctctcc	aggtacattt	ctcatattat	taatgaaaat	gcctacnaac	accaacacca	540
aaattctgtc	ttccagggaa	aggttncaat	ttaaaaanat	tggtcnttnt	ttnaaaa	597

<210> 9853

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9853

ccaattctta	ttttattaaa	aaaaatggaa	ataaagttta	aaaaatcaat	caacatggcc	60
tttaatttta	acaattttta	cagcaagtgg	tggggggagt	tctcaaatga	ncaactggag	120
ctggaagcac	ttctgtggtc	aagcaggcag	cccatggggg	tgcattcttc	tgttggggga	180

tcatccattt	tcttcaatga	atagttttta	gtcttgtcaa	atgctcacac	agaggcccgc	240
tattaaggag	gcanacaggc	aacattcaat	acgaaggcag	gacaagctca	gccccgctcc	300
ttcattcggg	catgtgtcat	tagggatgac	attctctgaa	ggctgcccgg	cttgaatggc	360
caaatccctg	catcatggct	ttctttaatt	ccctctgctc	ccaactcaca	aaatgangac	420
ctctctttta	aaacaaaaag	cactgttctc	aaagggtatac	atttggaact	tccaataatg	480
aaaacatctc	ttgcttggca	ggtggaatat	agcaattttg	gatttttaat	catgcatggg	540
gcggaattaa	atttcttcca	gggttntttt	cctaaaatng	ga		582

<210> 9854

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9854

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnn						547

<210> 9855

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9855

gcatttaaat	tttcaaatag	tggcaatatt	tcactttcca	ggtataatta	ttttctttta	60
aaaatgccac	taatanatac	atgtcattac	acatttggtt	aaatccacag	aatgtncaac	120
actgagagt	taaactgtgg	actttgggtg	ataatgagac	attgatgtag	gttcatcgat	180
tgtaacaaat	acaccactgt	ggcgtaagat	gtcaatagtg	ggggcactct	gtactttctg	240
ctcaattttg	ttctgaacct	aagactgctc	taaaatacaa	agtctattta	ataaataaat	300
aaaatggaaa	aacagtaata	acaaatgccc	cttgaaacca	tttttccaaa	aataatttgt	360
gtcatcttgc	ctgaagaaaa	agaatatgta	aaaaataatt	tctaaaattc	tgtttcttta	420
taccaaatac	acgggacctt	gaatatctta	acaagtccta	attattgctg	aagaacagga	480
atcactactc	cgaaanatgt	nacaaagaac	ccctccctac	catattaacc	cggccccccc	540
ccaaaaana	ttttccttnt	ttcngggaan	cnggaaaccc			580

<210> 9856

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9856

ganacaaggt	atcactttgc	tgcacaggtt	gaantacagt	ggtacagtca	tggctcactg	60
tagccttcac	aaacccagtc	atttggactc	ctaggttcag	gcaatcctcc	tgcctcagcc	120
tccaaaatan	ctgggactat	aggcatgctt	caccatgcct	ggctaatttt	ttttttttta	180
aatagggaca	tgatcatgct	atgttgacca	ggcaggtctg	gaactcctag	gctcaagcaa	240
tcttccact	ttagcctccc	aaaatgctgg	gatcacaggc	ttgaatcact	gtgcccagcg	300
ganaccttct	gtttttctcag	ttaancangg	aaagtgtntn	aaaggtgaaa	tgcangtttt	360
caactgtcat	ctgaaaaaat	caaaancaaa	tctgctaata	aaacatacaa	aaatgggtag	420
gccttattaa	atggctattt	aaattttttg	tnanaaattt	caattnttnt	can	473

<210> 9857

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9857

atgaatgaag	agtgtgctat	gcaaatgagg	gcgattcaca	aaaagagaca	gaacatggct	60
gccacttctg	cttctacact	gcactgacac	tgcagcaatg	tacctccttc	tacacccgct	120
cagcaaaaagc	gtgtgttttg	gggtggggag	ggagtaaggg	aggaggaaat	gttgtttggc	180
ctttctctan	ctatttttacg	ttaaacagga	ctcgggtacag	actttaaaaa	gttatttcaa	240
aaaggtctga	ctttagtaat	gcactgtatt	taaaggaatg	catccaaatg	actaagtcct	300
aactcactta	actctttcca	accctccgaa	nataaacaaa	agttgaactt	aattacaana	360
aaacggatgc	taatattctg	cttggaatta	aatcccttct	caatanaaaa	gtgttgccna	420
ccattatttc	tccccgcanc	tgtcncntta	aagcaaaacn	tttaaaanac		470

<210> 9858

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9858

agancatttt	aatcagtttt	attgattcat	gcttccagtt	cttattcagt	taaaaacaag	60
ggnacattaa	atacatcctc	ttattgctct	ataaatgcat	gcagctcatt	ctgtgtatca	120
aaagtaataa	ataatggcca	taaaacacca	agacagttat	aaaaatgaca	accagcctc	180
aaacatagta	tttaacagtc	cagtctagaa	caataaccca	acatgataca	taaaagtgcc	240
acatatgaaa	acatgcggtg	tgtatatcca	ctctagcact	gagcttacac	ttgctattta	300
aaaacatagt	agggtttttt	cactccttca	aaaagggtga	catgatgcaa	acatcgcaag	360
ttatagcatc	attgacttta	atattacatt	catatgccaa	aaatctttac	agatacataa	420
gaanaaaaat	aacatcaatg	atgaccctac	agtatattta	gtaaaagtga	naatgaattt	480
ttttgttggt	caaaaanaaga	anctactttt	ttgaaacaga	caagccaanc	cgaactgaa	540
nccganaaaa	acatgctttt	ataccaaaaa	cnaaa			575

<210> 9859

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9859

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
------------	------------	------------	------------	------------	------------	----

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnn	595

<210> 9860

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9860

attttttttt	tttttttttt	tttttttgca	nacgaagttt	caaccttttt	attcaaagca	60
gcttctcaca	atgtataaat	actgcatatt	agcacacatg	aaaaatacaa	cttctaaggn	120
accanaaat	gtgttcatac	acgttacagg	accattcaca	aananaagtg	acaatttgct	180
ctaaacagtc	aggatttgat	aaatcanaaa	attattatcc	ctcagtactg	cacccagttc	240
cagtaaatat	ttacaacatg	gtganaaggg	gtcagctgta	ccttctttat	aattctatga	300
agtactcana	cttacaataa	ttcagaacta	gttaaanact	ctcccntgat	aatctggcaa	360
aataaaacaa	gtanccta	tttgcaaaag	tctcgggtgga	ttttggtgtn	tgctacatcc	420
atgatcaaat	ccaaacactc	ctanggtggg	ctggataant	ttttggtagc	ctgcttcatt	480
atcggaattt	ggtaataanc	cttaccacaa	aaatacanct	cttcacatca	tcattctcac	540
tggtcatgga	tcattgatccc	cctgaatgaa	aatggaaaaa	aat		583

<210> 9861

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9861

acataatatg	ttatttat	gatattctgg	agaagtccaa	acacacaaag	tgattctgta	60
tttgcgagaa	atttaaggag	atgatgaaaa	tggtgaaaaa	atagatttaa	aagggtgatg	120
aaagtattat	gtataatatt	ataatggtaa	atatgtgata	tgaatttggt	gaaatcaaca	180
gaatatacag	cataaagggt	taattccaat	tcacaaaaat	ataaataaat	aggagattag	240
gaattccagg	atagaatgca	gacaatatag	aaaatatcta	atgtcattac	aaatgtatga	300
aatcagaana	ngtgccaagt	gacctcagaa	atagtgtagt	caataaaaaga	ataaagaaag	360
tgacagtcag	aactgtaccc	cagctgatga	tgctcctcca	aagagcaaaa	catacacaa	420
ctggttccac	tctacagaaa	tcctggaact	ggactacaaa	gggaataaac	agggttgtgg	480
cnggaagggg	gtccncccg	ttggattgca	agggttaggga	cagggaataaa	aggccgggtat	540
taacattccn	ttggtnttac	agggcgaatt	ttcatatntt	gcaanttta		589

<210> 9862

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9862

ggtttaata	atccatttgt	attgggtctt	agtaagaata	ctactactag	taactattat	60
caagcaacta	ctgtgtcatg	tacttttcac	acattctttt	aattaaaaac	tctccactaa	120
cccttacagt	tcagtattat	ccttggttta	cagatgaaga	aaagccaaag	agaagttata	180
taactggcaa	gtttctctgg	ctccccgcct	gcaccactgc	tcgccagatt	gcatgaagag	240
ggaggcagct	gtaacacctc	atcccgttga	tctccangga	actcanatac	ttgtttccac	300
gtccaggaaa	ccgcaaacta	agctctttga	ancatcagca	aanccttgcta	antgacacgt	360
gaaatgccat	tggatacata	ttctaattct	tcaggtataa	aggacagtca	nactgcctca	420
tctgttcac	caagggatct	ganaacanac	attcctccag	tnttgaacat	ccacatcctt	480
atnggaaaat	ggtccaaaaa	aanaatggcc	cccnttttaa	aaanattttt	ttagggccga	540
atttttttta	aactaatttt	cccaaaaatt	tttancnttt	ttatgcccc	c	591

<210> 9863

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9863

cctggcataa	gacattttct	atgtattcaa	aataagaaaa	ggaaatggtg	aatatattga	60
caagtagcag	tttgaattat	aatgacaatt	ctttaggatt	ttatgtagct	tgcataattta	120
acatttaaat	atattgttct	aggaattggn	tgataaaact	agaaaaataa	gagaaattat	180
gatcaccatg	tgttcactct	tcagactttg	atctatgaat	cagctcactg	agagagatac	240
ttgaaaactt	ctcttggttt	cttctaattc	atctttggaa	tgctcctccac	ggatggatgc	300
cttgacgttg	aaacataaat	gctataaaaa	ttaatcccc	tagcactacc	gctgttgcca	360
cggcaataaa	cgtgtgtcct	ggggaatggc	aatggtgcct	catcaacata	aatctgaaat	420
tctcaattaa	gttacaaaaa	nttctcctga	aatgacggnc	cctctaaant	ggaaaagtgc	480
aaanccttta	tgcttaantt	ganacctgaa	ggattatacc	tgcn		524

<210> 9864

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9864

acaaataaag	catgtgttta	ttgaaatagt	acctctatga	anaatacttt	aagaatgtga	60
atgggggttt	gtttttgtaa	actttcaatt	accttccctt	ccctgaccct	gccagggtatt	120
catctcctgc	ccagatccca	gggtggcctt	cctgaaatga	acgctccatc	tgaattttct	180
tctccccgtg	ctctcaagan	aatgcccagg	ctcctaacca	tgtctcanac	tgccctgcac	240
ctcagcctct	gtctctgcac	ccccaggcat	gttcaacctc	ttgcaattct	tgcattcccc	300
atagttcatg	acccaacctt	tgtcccccta	ccagctggtc	ctggaatacc	ccccaggctc	360
gtttgtgaac	ctcangagta	ttcatgttcc	aaagtgcgan	cactctggaa	ccgcctcccc	420
aagctgctgt	gggtctttgc	tgggtcccc	naatgttcaa	gtctgtctcc	cccangggcc	480
caatnccact	ccanaatntg	ttttctcccc	ccannacta			519

<210> 9865

<211> 433

<212> DNA



<213> Homo sapiens

<400> 9868

gacggagtct	gtctctgtcg	cccaggatgg	agtacagtgg	cacaatctca	gotcactgca	60
atctctgcct	cccaggttca	agcaattctc	ctgccttagc	ctcccaagta	gotgggatta	120
cagggtgcctg	ccaccacgcc	tggttaattt	ttgtattttt	ggtagagacg	gggtttcacc	180
atgttgccca	ggctgggtctt	gaactcctga	cctcaagtga	tccaccccca	ccccattgg	240
cttcccagan	ttctggggatt	acaggcgtga	atcacgcgc	ccagcccaaa	tcgccgaaat	300
ctttatctcc	taccttgatc	tctgtagcag	aaaagaacag	tatanatata	aattgtcatc	360
aacagatgca	acatatcttg	tnaatcaata	tattttcaag	tgaggctctt	gaatcacctg	420
cactgaaatc	atctgtgatg	cttatcaagc	atgcagatct	caggancntc	nctganttcn	480
taaatctcnt	ctctggangt	taaaa				505

<210> 9869

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9869

caaaggcaaa	taaaataagt	ttattgggat	gtaaccccat	cataaattga	ggagcatcca	60
tacggggcaa	gctataaaat	ctggaaaatt	taaatcaaat	taaattctgc	ttttaaaaaag	120
gtgccttaag	ttaaccaagc	attttgataa	cacattcaaa	tttaatatat	aaaaatagat	180
gtatcctgga	agatataatg	aagaacatac	catgtgtata	aattcagaat	acgcttttta	240
cacaaaagaac	tacaaaaaagt	tacaaagaca	gccttcagga	accacactta	ggaaaaagtga	300
gccgagcagc	cttcacgcaa	agcctccttc	aaagaagtct	cacaaagact	ccagaaccag	360
ccgagtcctg	cctcggggct	ccgtgttact	ttcaacacac	cgtggacagg	ggangaaatg	420
ggttctgctt	gctgaccacc	ancctctgat	gctgatgcga	tatgttncct	ttgacgtgtc	480
catgtttatc	cagttagccn	gaatacctga	acttcntcca	tttcncgtcc	ccccccgctn	540
aaattccagg	ggnncccaaa	aactcccaaa	aacctngggt	tttttcctt	acaatt	596

<210> 9870

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9870

aacaaaataaa	attcttttatt	taaattttctc	ttgtggggaa	aatattttttc	tttaaagcac	60
acttaaaaagt	aatttgcatt	tacttcctgt	aaagcatttc	catttcacaa	ttagcaaaaac	120
taaaaggcta	tgtctcttca	tgcattttatt	tttgttagaa	aaatgtccca	tgggtgctatc	180
aaaccgattt	taaccatcat	caagcttaac	tttgctctctg	ttgacaacat	gactacaaaac	240
atgaatcaaa	aaggagttaa	ggaatttttaa	gccataaggt	ttcaattata	gcttaccaat	300
tatgtaatta	gctgacaaaa	atcaagtctg	atgtagaata	gctgtcatct	acttaactgc	360
agataatcat	ggcatttttca	tttaagatga	tctgaactta	tgaaataaaag	gatccagtcc	420
caagaactca	ataatctctt	atgttttctt	ttgnaagact	tattttcaaat	attaactatt	480
tcgggtgcctg	aatggaaaaa	tataaacatt	aactcnaaaa	naatgttgta	ccgggtttgga	540
atccactngn	actttaaccn	cngtgnaaaa	accgaaagg			579

<210> 9871

<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 9871  
ctgtgtttaca acaaagcagt ttattttgtga tcagtgtttg agactctata catccttcac 60  
aaattttaatt ttacataatc tgatacgtct cttaaaactt aaactttgaa ctgctagact 120  
tttattttccc tanaacagaa gggctggtat aagttatttt ccagaaatga ggtaccgttt 180  
tcacagaact ggtttctttt ttttttttca agttttanan aactaaattt gcattttgta 240  
aaatcaaaaa gtaggaaaga tgttctttac aaataatttt gatcaagtat gtgttcaaag 300  
aaagcaggat aaaaaggctt tttctctaac attctgtgtt gtactgtatt gtgttcaat 360  
aggaattanc ttctgtcatt tgctaaaaaa atgantattg gggaacagga tatgttggaa 420  
atttcataac gggtaacaga accattctct tgggtaaacc ataagcangg gcancgtgtc 480  
tgtaaccata tgggtttttc ataccctgna actatttncc agaacaactg tccccacaa 540  
aancccccct gttnaaatc ccccccccg ccccaaaact ngnatggtgc aan 594

<210> 9872  
<211> 479  
<212> DNA  
<213> Homo sapiens

<400> 9872  
caaggnagat atttcctgga cttgaataaa gtgttttttg tttgtattct cattccatca 60  
gtagtatgac ttagggcaag agccaaactc tttatgcttc atttttttta atctaataga 120  
tcaaggaaat ggaaaccggc tcaatagggt gtttaaagct taananatgt gtgaatgcac 180  
ctagcaccta ctanacacaa caatgagcct gcatttcgcg aagtaagcca ttctacctc 240  
cttaccoccc attccaatta atgtttgtct ataanaatat tttaaaattc aagagccaat 300  
gtaaaactct gtaaatatta tcttgcatt tatagagacn accacaaaag tttgcaatga 360  
tgcanatgac atccataatg agtctcttaa atgaagggtt ggcangcaat acaggctctt 420  
tgaataaaaa tntcccagg aaaaataact gcaantcnag ccccaaacc atcanntnt 479

<210> 9873  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 9873  
ccacaaggga atatcatttt attactgtaa tcacaaaatc gtaatttctg tacaggaatg 60  
tataagtga cattattcaa agcattggta atncactnca taaanagggt aaacatacta 120  
canaacatat tgtaaanaaa aaatattgta aaatttnctg gtcttgcagt gcactattta 180  
gtgcaagtat ttaaaacaca atagtgttca attcancaa gtattgcaaa atgtcatgcc 240  
acagtccact taattcaaaa agggtcagga catgcacctt gtaataaaat gtcaaaatgt 300  
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt anaaaaaacc acatgtaatt cataaaatat 360  
atagtgggtt atttaaatgg ttttaaatga atttccctgt ggaatccacc ataactggaa 420  
cacatcccag ggtctcctta acggcaacaa accttatgct aaggcaatgg ctttgggctc 480  
cgggttagaa atccncccca ttttttnac cccctttgnt tntntttgaa acaatgaanc 540  
caatttctna a 551



<210> 9874  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 9874  
gggaaaaatg taattttattt gcaactgcttc cattctttcta ctgtagtggtt aggacttaac 60  
ataagcatca ctcttctattt tcctattttac attcttttgg aatattactg caaatacaat 120  
atacaattta aaaaaactta tggggaaaca cagcttatgt ttttttctcc tctttacagg 180  
cttctcagta tcattcgact tcaatggaaa tttatatgga cattttctgt acatatctta 240  
aaaggcagan attacactga taaagcctaa agaatcctgc acaaatacaa tacagaaaac 300  
agaaagtaca gaacnatggtt atttggggta caaatataaa caatacagta ccatttgagt 360  
nactgagcaa cataataccc atactttata gaaataaaaac tgcaaacctg gagaatgctc 420  
tgacaaatat taaacattat ataacnratg aggtaaatgt tccttggtct cttganaagt 480  
tatttaagtt ttaanccatt gacttttgaa acntctccct tacntttnaa 530

<210> 9875  
<211> 475  
<212> DNA  
<213> Homo sapiens

<400> 9875  
antttaaaa caacaagcat cctttattct ccttccaatc tcagtgtcca aaagctacgg 60  
ttaacangtt ttcnaagtgc aaatcatttc attcctcnaa agccanangg gaataaaaaac 120  
tgtacatcat ctccaatcca tattcatcag gancgccctg gggcttgtca tcctgtctggc 180  
acggggccag gtttcanggc ctggcgga aaagtctgta ngctttggga cttgggtgtct 240  
ggccccntga natnanatta gttctccnat aacctgaatg cctcttgggg aggcggcagc 300  
acgcaggcgt ataatccctc tagacancca gatcgggcgt ggggtggantt taaacccac 360  
gatgttctaa cagccacaat naaaactggg ggttngaagt tanaacctct naacnagaat 420  
tgggatttnc ccaagggaat aaggggggtt aaataatcca aaaggccna ccatt 475

<210> 9876  
<211> 471  
<212> DNA  
<213> Homo sapiens

<400> 9876  
acattttaaa gacattttta ttgagctaatt tttaacaaca ttgcttttagc tgggtgacagc 60  
tgccccaac caaaacaaag ccatcatgaa tgctattcaa catcctcaat gtaatccagt 120  
atgtttttgt acttggaata tagttaaact tttgacatta cataatcaag caaatagcag 180  
tgcatactat attattcaaa aagactttat ctatttcatt taaaaaatca agttgcaagt 240  
ggcctcagct ttatcaacaa tcgtagtgac acattccaca cttcatgctc tcaaaataaa 300  
aagtgcccta aaactaactc taagtttttt agtcactgac attaatacta accagggttac 360  
aggaattgaa gtttaacatt gtacaatata agcggcaata agttactgat atctgctgac 420  
aaattccnch ccaactaaat atatcctgan acntncaaaa ananatttgg t 471

<210> 9877  
<211> 560

009220" 59462960



<210> 9880  
<211> 578  
<212> DNA  
<213> Homo sapiens

<400> 9880  
gctgttggtg cttgtgcttt tgggtgccata tctaanaaac attgccaaat ccaaggtcat 60  
gaanatttat tcctgtatatt tcttctcnaa gttttatggt tttagctctt acatttaggt 120  
ctttgatcta ttttgaatta atttttatat atggtatgaa gtacagggtac aaattcattc 180  
ttttgcatgt gaatattcac ttgtcttagc actattagtt gaagacactg ttctttcttc 240  
attgaatggt cctggaaccc ttgtcaaaaa tcaattgacc atagtgtatt ggcgtaattt 300  
gtttctggac ttccattctt actctattgc tttatatatt tttataccag cacaacactg 360  
ttttgattga agtanccttg cagtaaattt tgaaattgga aaatgtgaat ccttcaactt 420  
tattcttggt ccagatgttt tgaacagact tgaattcctc cgttacttgc aatccctata 480  
attcnagggt cggctttcca tttctgttaa anggtcctgg aatttaatgg ggaagtttta 540  
atccttaaaa aatttgggaa ttagccccct aacaantt 578

<210> 9881  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9881  
acataaaatt atctcactcc attttatatta anattttttt atccagttag taaaaggaan 60  
atgtgtctct ctttatacat atgtacaagt tcagttataa aaatagcaca ttcaaagaga 120  
aaaggcttgg catttttctg attccctcta aatagcatct gtacacagga atctgggttt 180  
gagcagggga atcttaatga tttaaattaa atgattcccc tataccccct actccaaaaa 240  
agttttaaaa atcaatctat cgaaactcaa ttccgcgatt ttccaggtgtg caaatcaaag 300  
gcttgcccg cccggaggtag ctgctccacc agggacatca ngcagggaca ggcagaaaca 360  
cctcccatgc aaacactgcc cctctgtctc tactggaggg cagcaaactc angctggccg 420  
ggctgggaag gccggtgcon aacctgcccc tctctccgcc ctcttcacct caatcctgct 480  
gtcccttcct ctctcattgc aatataaana ntgcatacac ccaaccaggg aatgaagggn 540  
ttaccaggaa aatnttcttc cggatgggca angggantct ccaaaang 588

<210> 9882  
<211> 456  
<212> DNA  
<213> Homo sapiens

<400> 9882  
cataactttt catagaaaaa tataaatata ttccctgaat tgtaaganaa aaaaataatt 60  
ttaacagcca gctttcacca taaatgccag tccatttcct cttaaataaa ctggctttcc 120  
ctcaagggtca taagggtgcaa ccattgaaat ctaacacatt ttctaaactt ctgtcatcat 180  
ccccatcatg gtatctcaca gtcctttctac cctgatttct cgttttttatt tttgaacgtc 240  
gaaaaactct tttagatttt gcatagtcca aatcctccca gtcattatca tccacactta 300  
acctagggcg tttgctttgt ctttgacgtc tcacagtttt agatatgtta gctgtaaaag 360  
ttttaccttt tctaactact tttgcttttc ctttcgtttt ccncntttg ggttttgtnt 420

008240'69462960

tanccgtaca ntccaaatct gaatcnattt ccnaat 456

<210> 9883

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9883

atttnnnngc	acatcccttt	tcactttaca	gtacatttga	ctatagtga	caacatgatt	60
ccgagtcaaa	acagtggccc	attgggcact	gagcttctga	ttgggtgaag	gcagtccaat	120
cagtgtggt	gtcactgggt	taccccaacc	atgtccggcc	aaaatggcac	taccagtg	180
tagtgaacca	tctaattaaa	acaaaaactc	ccccagggaa	aatgctacac	tatcagagtc	240
agtcttgagt	cagatcttta	tttgggtgctc	catccanata	tatttttagt	gctttctctt	300
tacgangtga	gtatgtttaca	cgatgtccag	tcttctggan	tcgactgctt	tcttttttca	360
tcagttcatt	tctttgtctca	tctgtcaatt	ccattaattc	ttctgtttta	tccctataaaa	420
atatgaccgc	ccctcctctc	cngatattaa	gangcccaaa	ntcccgggtg	aaaactttan	480
gaatcccctc	caaatccnga	anaaaatcc				509

<210> 9884

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9884

aatctcaagc	tgctttttatt	acagaagtaa	tacatgtttt	gtacggaaaa	tgtagaaaac	60
ttagaaaagc	tcaaacaaac	ataaaaaatca	catattaacc	cagtacctag	aaggaaccac	120
tgttatcact	ctgcagttta	ccttcaagta	tttttctaca	cacgcacaca	aaaaatatat	180
acatcttatt	tttcaatctt	attttttcag	ttatgtagt	aaacagcttt	tctggcgtag	240
agcctacgaa	cttgagcgct	tgtgtggatt	ttgtcctcac	aaccacagcc	agcatcacaca	300
cagctctgcc	acccaaaaca	ctcttcaccc	tttctctggt	ggtcntgcct	ccccgaaccc	360
cngcctctcc	anccaccgat	ctgggtctcc	anccccang	tctgtnttct	ttttganaat	420
atc						423

<210> 9885

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9885

aagattaaaa	aatgctttta	tactgctgaa	gtcttttcaat	tctagagcag	gcatagaata	60
tatagaatgt	ttaccttatg	accagataca	acctcccaag	aaaaactgga	tcctgcaggg	120
cagctgggtct	tcacagttcc	tgctgggact	acagttgcag	aagtcattcc	atcacttttc	180
tctttttaag	ggagttaagt	acaggtnaag	gaactcttcn	agcaaagatc	ttaataatct	240
cttgattatc	gatgtccgtg	gaggcttttt	aatcccttcn	ttgcttctgc	attcttganc	300
cttggcttct	ttcactcact	ctctccta	tctcctgtct	ttctgaatgg	gccattccag	360
ttttcaatag	gtgacttcta	tttctcngt	gttgggtgtg	cctanggttc	tggtgtgtgc	420
atttctgana	tatattaaca	ctccgggaaa	tcttattgac	aaatcccca	ttacttaaac	480
attgtcantt	ccnggccnaa	atccctattt	taactccngg	tcnaancnc	cactttatgg	540

gcttttg 546

<210> 9886

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9886

gaaatggtac	tgaatatatt	tgttacatcc	tgaatcaacc	caatagacta	tcttgtaaac	60
aaaatagtaa	ggtaacactt	caaaaacaga	tgaacaattt	atccaccaag	aatgtatata	120
gtaagccaaa	agctcactgt	ggaaatacac	ttagcatggt	tattagaaaa	tcacaaagag	180
taatgtaaca	agttaccaaa	ttttatggtc	atgttctgct	tgataattca	aataggatgg	240
atggtagtta	ctagtttnc	atttgtgttg	ttttaacatc	tccattgatt	tttaatgctt	300
tattttttat	ttgaatttgc	tggtctggcag	gtttgctttg	cttaatacat	tgactgcaac	360
acncttattg	ttgtgtttgg	gtanaataan	acntncgana	atatttttta	aaggcctntg	420
gaaggttcca	tggaaaaaatc	cgaatactcc	ataaccctgc	cgttccaaaa	ttccactgaa	480
tgctgttat	tngggcacca	acggaccctn	gttggcaggt	tttttncn	aaaacaatgg	540
ttggtntncc	nctgtct					557

<210> 9887

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9887

actgaataca	accctccccc	gtgaaagcca	agctgggtaa	tgctcttgct	tcccaggatg	60
gtgttgcagg	atgttgcaaa	atggaacagt	aataaaaaac	cactacctca	ttatctcatc	120
atctgctgga	gccaggcaaa	tagcttcctg	attgaagctc	aacaaaagg	gagangtccc	180
ttgggttgct	gtgtacctaa	aagctctccc	atatctcaga	ctgcaaaacta	cctgtttttc	240
gtgcaganag	aaangcctct	aggttccagg	ttctggactt	tgctttaaag	cagattggct	300
ttgccagaat	gtctcctttt	cttatcactt	aatgctgttg	cctcccagaa	ctgatacttc	360
ccanataacc	canancaa	gtgaaaaagc	acancatgcc	ctgagaacga	tttctaanaa	420
actgcatgga	ctccatcatc	taanaacatt	acatgttgg	ctcctatact	tentaaccag	480
ccagcntact	ccgaatatct	gaaattagtt	ntcntatat	ttncagggtt	gtttcccnc	540
ctgttccctna	tat					553

<210> 9888

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9888

aaaaacatgt	taagatgttt	tattttcttaa	tcagctaatt	tgactgggaa	acaaanatgc	60
cttttattca	cattttcttt	gantcgtgtt	actgtagtaa	aggttcccca	caanatttgg	120
cctttgctca	caagttttgc	ggctgccaat	tagtttccan	agtcgctatt	ttacaaaaat	180
gcttctcact	tttaaaaaat	gtaattgaat	gtctgttcat	cacagagttt	cttgtgttca	240
agcccagggt	gttaaacatt	tttcagggtt	acttgggtca	gctttgaaaa	atttcagaca	300
gtgaaacttg	anaagggacc	gtatgctata	ntgtgttcct	cacatcctgt	taagtattaa	360

-3775/13211-

gtggatattt	aaaatggant	tgttatcctc	ttgactgact	taaagtgagc	catatanntt	420
accanactat	taattaaatn	aaaaaaatgc	ctgggatgcn	catttntttc	ntaatcatcc	480
cattggnccc	ga					492

<210> 9889

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9889

aagcttacc	tgtaattttt	aataacttta	taaggagcaa	atgtgtcacc	ttaaaaatgt	60
accagtggca	tttaciaaatt	ccttcaaact	catttacaaa	tacagtaata	aaaattcctg	120
agctcccttt	tcttacacca	gtattcacca	atcaacatcc	atgcggtgtt	ttatttgacc	180
cacatcctct	ttccttttct	taagaaaata	ttttatcaca	ttcgtaaaag	tatctgtgct	240
tcaagtcagt	ttgtaagtat	ctgtttttta	tgtgaatctg	atgataacaa	gagaaaaatg	300
cttaacatta	ncaggggcag	cangaattga	ngggtgggtg	gggggacaat	ggaaggaaat	360
atnaatacca	naattccagt	ttangtggtg	ggacttccaa	ggtanaatac	atctgacaat	420
atcaaaaaca	nactcnnttt	c				441

<210> 9890

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9890

ctggtaaaac	tgtagtttat	ttatcaaaaa	atgtgaattt	ttatttttaga	aatgtaggtc	60
aagcattgtc	atagttgtag	tacttaattg	anaataatgg	nttcnatttg	gaagantcna	120
tatacncatt	aaacaaaatt	aaacagttta	aattataatt	cataataatt	ataattctca	180
tttttagatg	gccaaaatat	attgttttct	tactataaag	tgttatttat	tcacgtctca	240
tttttactaa	ttatattcaa	ttcacagtag	tgacatcaaa	gggacaagtc	atcataggtc	300
tgagaccagg	aaaacctggt	ctgtttttaac	agaagcgtgt	ctaaaataaa	antacatatt	360
tcaattagtc	cccccganat	ngaaaagaac	ccggatnatc	cttgtttttg	aaggcctgaa	420
ttccagtttn	aatgttattc	cttncgcccc	ctgaaataat	taaaaatttg	cccatanggt	480
cggtgctatt	taaggcgggt	tcaacccctt	ttgaaattta	ccacttaaaa	nttcncctnt	540
ggaaaanaaa	aaaaaaattt	tgacgttttg	gttaaaaana			579

<210> 9891

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9891

agatanantt	tcgctcttgt	cacccangct	ggantgcaat	ggnacaatct	cagctcactg	60
taacctctgc	ctcctgannt	caagcgaatt	tcctgcctca	gcctcctgaa	taactaggan	120
tacaagggnc	tgccaccatg	cctggctaatt	tttttgtatt	tatagtaaaa	antaagtttc	180
accatgttgg	gcaggccggt	cttgaactcc	tgacctcaga	taatccacct	gcctcggccc	240
cccaaatttc	tgggattaca	ggtgtgagcc	accatgcccg	gccagttttc	tttttttaat	300
aatatctttg	cctatctttt	gtatcataat	tcctggcctca	tancgggaga	aagaaattat	360

000220"69462960

ccctcctcct	ttagttttct	ggaatatattt	atgtnaaatt	ggtattatttt	cttccctaaa	420
tgtttantta	aaattgcccc	ccaaaccctc	tnggntttna	attttccttt	ttnaataatc	480
ccantttttt	aaaattgttt	tcctttaaaa	aanaaaaggg	aa		522

<210> 9892

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9892

ggcaactttc	tggtattact	tgtaaacact	ggttccttca	actttctgat	attacttgta	60
aacactgggt	ccttctcaac	caccgtattc	tgattgggtc	tataagtagc	acccagtcca	120
caccacagca	cgcttctggg	gtccaggana	ccgccttcac	tactgtgctg	gccccgcctg	180
tgtacggggc	ccggggccgg	gccatccaag	gtgcctgtgg	tgctcacacc	cccatggcgc	240
tcttctcgct	gtctttgggg	ctgggctcct	ccggantctt	cttcattctc	caacccctga	300
accaagtgtg	tgcggaagac	cgcccaacac	catcatttnc	tcctccacaa	aaagaaactc	360
ttgggtctccc	ccntantaaa	acaacnggcc	aacaattttc	tnggcacaaa	ggcctttggc	420
cgtgccccaa	naatttnttg	gttcaccgga	atggttaaaa	ttaaantttc	cattcctntc	480
ccttnnccca	atggggcaaaa	cccaaaaagg	gccncccaa			519

<210> 9893

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9893

gcttccaaat	gcaattcttt	taataaacag	taacaaattc	tctgttaaga	tgtttaaact	60
gagagaaaaa	aaaaaccag	taaatccagc	ttttaaaaga	aaattcaata	aatagctatt	120
ttacatggat	aaagtcatag	tggtacaatt	tatgaatgtc	acatcaagca	tgacacaaaa	180
tggtattata	catggcagaa	gtagtcagaa	aatattgaat	tagatctaaa	aagatatgaa	240
gaatttacac	ttatatacaa	aaatcttgca	aattattgcc	tcnttttaac	aaggaattaa	300
aagtaaacad	taccagctag	ttagcactct	ctaagaaggg	taaaatcaga	ttgacattta	360
aaaatctatt	aaactagctg	gaattttatt	ttctctcata	ccattttccg	ggattttggg	420
ccaaaatctt	tatttaaata	actaaaagtg	tccatccact	tgctgataat	ccaaacttta	480
nataaaaaac	ctggtttccc	ncttntttcc	anaaccccc	catggcttaa	ataactgaat	540
nttttctgct	ccccncgaa	aaagggng				568

<210> 9894

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9894

ctcttttttt	ttttttttga	gacagtttca	ttctgtcacc	caggctggag	tgcaagtgtg	60
caatcttggg	tcactgcaac	ctctgcctcc	caggttcaag	cgatcctctc	accttggcca	120
cccagtagtc	tggtgattaca	ggcatatgac	accataccca	gctaattttt	ttgtagtttc	180
agtanaaatg	gggtctcacc	atgctggcca	ggctggctct	gaactcctga	cctcaagtga	240
tacactctcc	tcggcctcca	aaagtgtctg	gattacaggc	ttgancactg	catccagcca	300

ctctttttga	tttcttacag	ttcatatgaa	nagaaacaaa	tttgtgcaat	gaaatgtcca	360
tgaacaatt	taaacccttc	acaaatttta	gaaagaaact	aaggacaggg	atTTTTTTT	420
tgttacacta	acccnaagc	attatcttta	tacactaaat	gcattatgct	atagtaagaa	480
taaattccaa	tacngctatn	TTTTTTTaa	aangccaatt	ggaaaaaatt	tgtttctccc	540
tnaanaacco	cccttttccc	gattatccct	ccttaaancc	aagggcccn		589

<210> 9895

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9895

gaganagtgt	ctcgctctgt	tgacacaggct	ggancacagt	ancgccacct	cggntcactg	60
caacctccac	ctcccangtt	caagcgaatt	gctggganta	cgggtgcata	ccaacatgcc	120
ctgctaattt	ctgtattttt	agcaaaaaana	gggttttacc	atgttggcca	ngctgttctt	180
gaattcctga	ntcagggtga	tccgcccacc	tcgaccaccc	aaagtgctgg	gattacaggc	240
gtgagccact	gcgcccagca	aattcttact	ttcatatgt	tgaacgtgca	tgcaagtgtg	300
atcctctagt	tttcttattt	tctcccactt	tacaactctt	tttgtcctcc	tccgtgggag	360
ttttctcaac	tttatcttcc	aaccctctaa	gaatttaata	ttctgaattt	ccaactcttc	420
tatgaagtgt	ttcatattct	aaatttctan	aaactcttgt	tttctgggcc	tgctttttca	480
taacancctt	tcttgtttca	aaaatcaata	cctttattct	gaaaaaacat	ttactttttt	540
acaaaacttn	tcnccccctg	nantttttcc	attcccccn	c		581

<210> 9896

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9896

gactttaatg	atgttcattt	atttaaacga	tctgtatgaa	tttggtgatt	ttgtggatac	60
gcccctgaca	gacaaggatt	cacagccgac	ggaagtcagg	gaggctccct	gcaaattctt	120
catctccgcg	gggcctgccc	gagccctgat	cctgcagagc	cgtggggctg	aggtagccgc	180
cggttgtggt	ccaggagtgc	gtctttctgg	atgcggggca	ccttcatttc	accgtagcaa	240
ccgggtacca	aaagtagaag	cggatttttg	gaaaatgagt	cattaggtcc	caaagagaac	300
ctattgcaac	atggactcca	taacgttctt	gaggatcatc	ctgagaaact	gatgtctctc	360
gtagacaaa	aatgcacgat	ttgcttggga	aaggggagta	aaaatggtgc	tgcatccat	420
tggctggctg	ggaacttgaa	ccagcagctc	caacaagcga	catgtnnnnn	nn	472

<210> 9897

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9897

caatgtaaaa	tcaagtttta	tatgattcna	aganaaaagt	tacattacac	atgctcgttt	60
aaataatgtc	aaagtctgtt	acataaaaaca	taattatgaa	acattttaag	tottatcatt	120
caaactactt	aaaaggntca	aagtcacaaa	anatcaagca	aaactgccca	ggcaataaag	180
tgacagaggg	gagcccacct	ctccagcggc	cgtcagcacc	canagccgcc	agctgagggc	240



tccatgccga	atccatacac	aaggtttgtg	gttctcagaa	nagttttcag	acaggaactg	300
tttccaactt	aaaatctttc	aacagacaaa	tggangtgga	anggggatgg	tttacacaaa	360
gtattttcaa	atgtaatcag	gaaatggaag	tgtnaattaa	aaccgttttc	acatgtntct	420
cctctttaga	aatatcctgc	ttgganaatg	ttttgacaac	cacccaattc	tccnaaaacc	480
ttntccccc	aaatactggc	nggacncnca	ttactttgct	tttcttatta	aaaaaaattt	540
cccatttgaa	nccctttt					558

<210> 9898

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9898

agatggagtc	tcactctgtt	gcccaggctg	gagtgcagtg	gcacgatctt	ggcttactgc	60
aacttccgcc	tcccanattc	aagtgatttc	tggctaattt	ttgtattttt	agtcganaca	120
gcatttcgcc	ttgttggcca	ggctgggtct	gaactcctga	cctcaagtga	tctgcccgcc	180
ttggcctccc	aaagtgctag	gattacaggc	gtgagccacc	atgcctggca	tttttccata	240
tgtctttgaa	caaattatta	actctttttc	accttggttt	gctttctgga	aatggggctg	300
anaataccta	actcctagga	tacgtcaaag	gattaaatga	ggcaatcagt	aaattgcccc	360
acaccatttc	tggcacaaag	tagatacttg	gaaaacaatt	ccttcccttt	ctttccccc	420
atgtcaaggt	gccagcattt	cttccctcaa	tggcttccct	cccagtanaa	aatnttcatt	480
tccnnaaatt	taaaaggcat	ggcggtnngg	ggaanggaaa	attgggnatt	ncitttaactt	540
tc						542

<210> 9899

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9899

aaaagaaaat	catgtacaga	ttttattttt	gntgaanatc	acaaaacaat	ttcaacctct	60
gggggtcaaa	ataatttaag	gatcttgtcc	tttgggggtt	attttctggt	tcnactaagg	120
anaganttca	gaangntag	cttcccttgt	tacgttttta	aacatctttt	tcatttgtta	180
gaanaacatt	tcaaaagccc	naattaaatt	atcattaaaa	tactttgaca	ctttacaatc	240
ttccaagtgg	aatttaagtt	gtatgccttg	atactgtagt	tttacagttt	ccccatcatt	300
ggtaaatatt	cttctatgat	gccactataa	tgctactggg	agaaaatatg	tgcatataat	360
ttatcagtat	attttcttgt	taaattttat	aaaaatctcn	aagttatgaa	nanagtttta	420
cnccccnncn	aaactaagtg	tttgccaact	attacccta	a		461

<210> 9900

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9900

cctngtgcag	tcaacaagtt	tcatttttagt	tgtgcttaca	ttatataact	gaagcctgaa	60
cactgattgt	gtttttaatt	tacacgtttc	aagaaaacca	taattaaata	ttcaccatat	120
acaacaaatt	gaacaaatgc	aacaaatact	catttgctcc	caagaaatta	atctatagaa	180

aggaaacatc	tttttaaaaa	gttgaacaca	gtctgctatc	caggctacaa	gtacatattt	240
actgtgttac	agcacattat	tttttttaaa	gtccgctttc	aacataaata	taaataatca	300
catttttaaaa	nagctccata	ctaagttttc	aggtaagtgc	taaacagttg	gccagtagca	360
actacttacc	attatctttc	tcacatagag	tgactagact	atctgcgaaa	ctgtataggg	420
tgatgggcaa	ggcaaaatga	aacatctttg	ttcacccatt	gaataaacat	tgtgtttctaa	480
atgcccctac	tttctaaata	cccacccatg	gaatgcaatt	atttaaaaag	ntggtttttaa	540
ggatcattat	cctt					554

<210> 9901

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9901

ccattgaana	gcgacattca	ttctggaatg	tttgttttga	aaacaactct	tctgggggaa	60
ttcaaaaggt	actgaacaaa	gcaacgtaaa	gtaagttttg	ggttgttttg	caaaataaaaa	120
atatacaatt	gagtggacca	natggcaaaa	acataccaat	tacaatctga	atgctatatt	180
taaaaccctt	aaattctgaa	ggcctgaata	tcaacaaacc	tatttatgtt	tatgatccta	240
aaaagacatt	aaatattatt	aaacccccaa	cttccaaaac	atagagaccc	ancaaactgg	300
gctagtggta	tctcagtaca	cagtcacaca	tgactagact	agactagact	agactagact	360
agagatctga	gtttgcaacc	aagtncaana	ngtctttaag	anctcangct	aagggangcc	420
tttattcnaa	tgcccttg					437

<210> 9902

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9902

gataggtagt	cagatttttt	attttcaaac	gtgccaggta	catttccac	ttttgaataa	60
cagcaaaacc	ggaanangat	gctttcacac	ataataaatg	ttctccatcc	tttctgaaat	120
gcaccaaagc	aaaaagcctc	tgaagtcaaa	acatgagaca	taattccttg	ctcattgcag	180
gagacatgca	ggtgccccct	cctttaccca	ataccaagag	acanacggcc	gggcagggtg	240
aaggcgggtg	gcgctgcagc	tgacatggag	aanagtctaa	atctgaagac	acttttccac	300
acttaggaca	agttcttcac	tttcatgctt	tattgaaagt	agaatatgaa	tcaaagacag	360
gcatttgtaa	gcaggttatg	tctctaaaat	tacttttcgt	tcagancaga	atgttgtccc	420
atctacttga	tacaatcctt	tatggaccaa	cncntctngt	ttgaaactcc	anccaggaaa	480
ttttaccgaa	cttttttccc	cncccccnan	taataatc			518

<210> 9903

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9903

gtctgaaact	ttttcctttt	aatatggttt	acattctatc	tccagagaaa	acacacttaa	60
cagaagacag	aaaacattta	acaaatccaa	agcaattaaa	aatagccaca	aaaaaagaga	120
ataacctaga	ctgacagctc	acagagcaag	gagggtggcag	anacctgccc	aggtgagctt	180



catgaataat	acctatctta	aagtaataat	aataaatgac	atgtgtatac	aaacacattt	240
aacatgaatc	aggattttctt	gttcttgatg	tcagcaccta	ctgtctaacg	ggtcgagaca	300
aaatactgtg	ccttcaagag	ttagtcccat	tttgaacccc	tcctgcatct	catctaattt	360
tgattgaata	tctggaggga	aatctgctgc	tccacagtta	aatgggtcaa	aaagttctgc	420
tccaaacaag	ttccgtttta	totcaataaa	tctctaagtt	ctggaagtgg	tgtntnccat	480
tgccaattag	gctccaaaaa	agggtgnatt	tngaaaaaat	tgaatcnttt	ccaaaatttc	540
cttgganggc	aaattagggt	tcttctgccc	gncggaagtc	ngaaacctn		589

<210> 9907

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9907

aaggagaaaa	aagtataaaa	atttcttttc	ttattacaag	aattccaaga	tgtgtcagag	60
ttgaccagaa	gcatanagaa	aactacatag	tcgagtaccc	accaggggaa	tgtggtanaa	120
ttggcagtc	gttggtctct	ttgtaatgtc	agattaaaga	aatcacctgg	aggctgacat	180
tggccccctc	ccttcccagg	aggcagatct	ggcctaaata	cggagatgog	tncaaagaag	240
acctaggatc	ncaatcgttc	ttagccatca	aactcttctt	ccaggtocta	gagaaaagtgg	300
ccactctata	ccaaagccaa	agaactgcag	agtactcctc	ttggttgggg	tttcatattg	360
ctcttgcaat	tcagtttctt	ctcatctttg	ctgtcatttc	gtgggtacca	acagccttgg	420
ccangtgtga	gaagtgtcca	ttactattgt	ttgctctgac	tatcttgogc	caagatccca	480
ttaaggtgga	accaanggcc	tggatgcttc	ttgccttggg	acanaataat	tgggtgggtgt	540
gtttcctntc	cccccgttgc	ccccgttttt	ttcccnaggg	cgttnaccnc	aattt	595

<210> 9908

<211> 389

<212> DNA

<213> Homo sapiens

<400> 9908

agtggcaact	ggtattttatt	acaattatat	acagtcctat	cttccgttct	gaggctctata	60
catgatcaca	caaatgaaca	tgtgttttct	ggggggaaag	acaaaactgg	ctgttgggtca	120
ngaagccctg	ctgcctggct	cctcctccgg	agttagcccc	catctcgcca	tgggattagc	180
tgaaccatta	cacggcaagc	gggggcatcg	gaagcganc	gtggtttcat	ttgtctggga	240
agacaacggg	gcatnaatgg	ggttggggct	ggggacaagc	acctgacggg	tccaaggccg	300
ggcccagggg	aaggaagggg	atgcanacac	canaaggacc	ncanctcctc	ctccactnaa	360
gaatccggaa	gcantangga	cctactctt				389

<210> 9909

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9909

gcaaataat	ttattttttat	tttgtctcat	acacacacag	aaaaacagat	aaaaatctag	60
cctgagattt	aaaactcact	aaggaaaaaa	aatcacagca	aaagcagtag	gttaacatca	120
ggatatttat	attcaaggnt	ctatggtatc	aagttttttt	tctcttttaga	nccaggcatg	180

gtggcatgca	cctgtggtcc	tagctactca	cgaagctgag	gcaggagggtt	tgcttgancc	240
ccagtgccttg	aggctgcagt	tagccgcgaa	tgcaactgctg	tactccaatc	tggaacacag	300
ancaggaccc	tgtctctaaa	aaatttgaga	ttttttaaaag	tccatatttt	tttgttattt	360
aaacgtggta	ttattcaaca	ttgatgaact	tggttcgtga	gttctaaaag	ggattcaaaa	420
taaaatggca	ttttcacttt	tttaaaatta	agatactttt	cntgatcaaa	aatatgtttt	480
tgtctccccc	ctganccccc	tttccaggtn	ggttaccaac	ttncnaaatt	taatttggct	540
tatnctccaa	anaacctttt	ctttaatcnt	tac			573

<210> 9910

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9910

aatttttact	ttttctcaag	tttaatgtag	acatacaaga	aaacatcaag	caatgtttat	60
tgtgcaattc	caatcattat	ttgcagaatc	ttggtttaga	gtcagtcctt	atagccattt	120
caactgcttg	gtttaaacaa	aaagcaacaa	tctggttatc	tacctataaa	tttcacggta	180
tttcttttaa	cactgaagta	ctaaaagcac	tgatgatttg	tattataatt	tttaaaatat	240
ttaaaacctt	cacagatttc	atagatcatt	cctttttata	aataatcaaa	ataatttgat	300
tatctggaaa	aaaaaattct	tgaacacagag	ccctttccag	gtatcttcaa	tctctgtaaa	360
accccaaacc	ccnaacagag	tagatgatga	aataaggatt	tctcagttgc	ccaagactgt	420
ctgaaattta	aggtganaaa	tggactggcg	tttttcatgt	ttcctgtgaa	ttcaaaaactt	480
acaggtggga	tcanaactcc	atctctngga	anggtttact	tggcttcctt	ttgaattggt	540
tcctttccat	tggctccttt	cccactcct				569

<210> 9911

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9911

gttttttttt	tttaactgat	gtgccagttt	tttgacacct	ttattcataa	gtcaatatat	60
ttgtcagttt	gaatgttata	cacatgataa	aatagattat	gagaagtatc	atattttacaa	120
taagaacact	attttatata	actgactcac	caaatatgca	acctcttgca	acaataacag	180
aatggactca	actccatcct	ttgaatagac	caatttcatt	attctcctaa	aaagttttga	240
gttgagtata	gttccttggt	gcttctctct	gtgatccaga	gcttaagaat	caatccctgg	300
aaaccagcca	ctggaaccag	acctctccag	aattgagaag	agacagccnt	agaaaaaagg	360
acacaaaccc	aaaagtcttg	agcgctgtgc	catatgcttg	atttcaganc	attcaggcac	420
tcnaggtcaa	gtgtgggggc	atatatatat	atgttctgtc	atctcaaatt	ccacnacngg	480
ttcagttngc	cgggattttn	aaaaaaaagaa	gctttccttg	aagaatgnat	ccntccccc	540
attttnttt						549

<210> 9912

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9912

aggatanag	tctatgttgc	acagtctggt	cacaaactcc	tggcctcaag	tgatgtttcc	60
tcctcagcct	cctaaagtat	tganattaca	gctgtaagcc	actataacctg	gcctcaaaaat	120
tatattaatg	tctattagtt	aacttgaatt	gtttgtgctt	gtcttgttgg	ttttaaccct	180
acttatatac	aagaattcaa	aagtattttc	aagccctatc	atttagttgt	aaaatatacc	240
caactcacat	ttatagactg	ccaactaact	tgaatgtttg	tacaggcatt	tctgctgtga	300
tgccatgtgt	acctaaataa	aactcacact	ctataaaatc	acacactaaa	ttaaattaac	360
agggctatag	aaaaaagant	tataggctta	cctctcaaaa	tctatagact	tttgtgacta	420
gaaagcacta	aaaaacagca	ataatatcct	attaacngtt	ttaccggtta	atctctccgc	480
nancaaccn	aatncngggg	aaatncttgg	cacct			515

<210> 9913

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9913

ccgaattatt	taacttcatt	ttattattat	ttatgctcct	caggtaattt	acatcgactg	60
catctgtatg	gtgaaaatat	agtataatgg	ggtgctgctg	tgaatctcct	tccaattctg	120
cattctgtga	tatcatagt	gtaacctgaa	atccaccata	gtggggacat	ttacacaata	180
actggcaaat	gctacaaggc	tgggcttttt	cagttttgtt	gattgtctgg	acataaaaaag	240
gtaatacaga	aaatgttacc	aatacaagca	tttgggaaaa	ataaactaaa	accttttgtg	300
aaaaacaaca	ggttttatgg	aatttacaat	aaataatact	gtatatatta	ttatttataa	360
attctgtgct	acacattcct	catatcagta	aaacttaaaa	catatatatg	ttatccatac	420
atthtgtttt	ctanaaancc	actggttgaa	cattaaccaa	cacactactg	ggaatttccn	480
nccnccaaag	tttttttagg	tnggggangg				510

<210> 9914

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9914

gactgaaaac	tactttatth	gaagacattt	tcttctatag	ttctaaacac	aaaaggaatg	60
ctgttatagt	gggtatthca	taggcattct	tgtattcaaa	tgaatcacat	aatgtttaca	120
ctthtaagct	agacttgaaa	ttgaagactt	aatacaacct	tttaacaaag	aaagtatcag	180
tcatatcaaa	acataactat	tcattctaca	gattatcact	ttccctaaaa	tgactactan	240
atatgaaaac	attgcaggga	cagctcaagt	gccccattct	taagggtttt	ttthtaatagg	300
aaaaatgaca	acgtaaatca	cattttcctt	ttctttacta	gtaatgaact	atggcaatcc	360
atthgagaaa	gcaccagcca	accgtacaag	tcatttcagc	accctttgct	cttcnaaact	420
gaacatctth	tatatthta	gcttccngtt	tgaataaaaa	tgggtatgtt	tantthcaaaa	480
ttccccacct	ntthattngg	ggtthtaatta	aaaagtthttc	ccctttcccn	aaaaaattaa	540
aaaattcncc	cgnt					554

<210> 9915

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9915

gggaatcacc	attttcagtt	tttaatgtta	aaggggctaa	cactgtatgg	gactcaagac	60
tggttttgaa	attctctttt	acatcagtc	ttaaataactg	attgttaaca	ttattttaatt	120
tctgtgttag	attttccacc	aaactctgag	gttcacaagt	tggaattaca	tttgaatgag	180
ggtagtant	tgggatttca	acactctttg	ctatgantcc	cattgttggt	aagtcacttg	240
ttaccaagtt	ttgggaancg	ttaggtgcaa	ttagtggagg	agcaactttc	tttcttctct	300
taaaaacact	gtttcccctt	tttatttaaa	tgactggatc	ttgtgttctg	aaggaccact	360
tntnacanaa	acacgaaaac	tgttactggt	aaaattttgt	gatgggcccc	cncaattagg	420
aatgaacta	aaacacaaac	cntttccnca	gtcctccant	attaattcct	nccttggaac	480
aanangcaaa	ctgctac					497

<210> 9916

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9916

cagtggattt	ctcaacaagt	cttttcaaca	gtgatacaca	atattcttcc	ctttggaatc	60
ggtgctgtta	aataaacatg	tnctatatag	ccattttcca	atgcaacatt	agagtacana	120
acaggtattc	tgtggctagt	gagtaatact	gctgctgtag	ggtgcataca	cgtaggagtc	180
ggacnangat	cttactcagg	attgcatcgt	antagggaca	naaaaccatc	ttgttatatt	240
tgaccaggcg	agcaaattta	atagcaactt	cctccagctc	tctctgaact	ggactgagtc	300
ccccagggac	tgtgggcaat	ggcttctgat	gacccnaggc	aaggtaggtt	ctaaaaagtc	360
aggattcnan	atcccatgat	cctgccaatg	gggtctcggg	aactgggcca	cggcctggat	420
ctgggccttg	aacaccggct	ccttgttcnt	ggtgaaagga	aaagaccccc	ccnggaaaag	480
cngcttgctc	ncctcccagn	cnancttctc	cccatgggtat			520

<210> 9917

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9917

gaggtacaaa	tccaacagag	ctttaatccc	aaagatccag	tggccaccag	antacagaag	60
tcagaatcaa	atgctcagaa	tcaaaagggtg	tggcactcct	gccagccggg	cttatcagca	120
gttgataga	cagatcagaa	aaaactagca	tttattataa	aaactgtttt	tcaaattggg	180
tgatttcctg	tccttctcca	nanatcataa	ttcttcacgt	ttctgaggac	cttctcggct	240
tggttctttt	gtcttctctt	gtacagtgc	tcccgtttct	ttctccttct	gaaagcggat	300
ctgtagctgt	ttgatctctt	ggtcgtagtc	ctgccactcc	gggacaatcc	gcacagctgc	360
ttcccagttt	ccgggctctt	tgggtctccg	gaattattac	acaaatcaat	gggttttgtc	420
cttttcttaa	aaaggcgtca	tcacaccacg	tttcacacca	aaaccattct	tgnaaggang	480
gatttaattn	gcacctgatn	aatcattttt	tnggccnato	ttnatcaaaa	ttgaaagggtg	540
ttt						543

<210> 9918

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9918

gtactctaag	gntttttat	ggtgacatct	ttccacagat	aaatgtaatg	tgtatcatta	60
cacttacatt	gcttttatct	agcacaaaaac	ctctgatgag	taagttcata	gtagttatta	120
aatgctttgc	cacatttctt	aaaatcagaa	tttttctcag	catgaatttt	cttctgtgca	180
ataagctgtc	agcaatgggt	gaanactttc	cccacattct	tcacatttgt	agtgtttctc	240
tccagtatga	attatcttgt	gatttcaatg	ccttgagcaa	natttatgga	atttgccaca	300
ttctttacat	ttgtagggat	ttctcttttag	taaaaattct	tacntantaa	nggtngaagc	360
agtgattaaa	anctcccca	cattttttat	acttgcngga	ttctctcctc	tttgaactct	420
cttatgtttc	attaaaatgt	gagcaccgtt	taaaancctt	gccacattct	cccatttata	480
ncgtttgang	gcagtatgaa	tttcctaata	tctagtgggt	gtgaccccg	ataaaggntt	540
tncccatnct	ccccgttgn	gggttccnc	catat			575

<210> 9919

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9919

gtaaattggtc	tcagatactt	tcttttgcta	aatggtgtga	tacagataaa	tccaataaat	60
ataataattt	acttaattca	ttatcatcag	gaangnctgg	aattaaaatt	cttgattttg	120
agttttataac	ggtttcattt	cacttattac	ctctacatat	gatcatttta	aatgtcagac	180
taattgaact	actgaattga	atgcaggcta	ttagcattaa	atgagactca	tgcaatagaa	240
tataaaggta	ttacactgtc	cctattttgt	gcactgttta	ataatcttag	gtacttanaa	300
tttttagatg	tgtntcta	aaatattttt	gtaaatacgt	cttgaccaag	tgttataaat	360
gtttctnaca	gatataaana	tcattttcaa	agtttactct	catanatttc	tgatacgtgt	420
aaattccaat	gttacctcat	aaccanccaa	atattccaan	tctcanaaaa	tgcaaaaatta	480
caatantccc	tgtttncccn					500

<210> 9920

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9920

gaagttgttt	ctccagtttt	ttggctttac	tcgtggcatg	ttttaacttt	tctctaactt	60
gaacatcttc	caaacttagc	tgtgtaaatt	tttctttatt	ctcctcaata	aattttgtaa	120
ttttattcag	tttcttttct	gtatctttta	catctttatt	cttagctttc	atttcatttg	180
atagtatatt	gctcttctca	ttaatttctt	tggtatcttc	atgaattttt	tccttttgag	240
tttccatttc	agcaattcgt	ttctgcaact	cataactccc	aacttaaagc	aggatactaa	300
aaagtcaact	tcaatgaatt	aatatgccta	atttaataaa	ttcaaccctg	gtgatcaacg	360
ggangaacag	ggttcncacc	aanaaaatnc	cccacattgg	aataattcca	cccataatnc	420
cttttttgtt	aaaaannggg	tctggcatgt	tgcccag			457

<210> 9921

<211> 507

<212> DNA

<213> Homo sapiens

09629469.072600



<400> 9921  
attattatac tttacnnttt anggtacatg tgcacaatgt gcaggttagt tacatatgta 60  
tacatgtgcc atgctgggggt gctgcaccca ntaacttgct atttancatt aactatatct 120  
ccnaatgcta atcctcccccc ctccccccac cccaaaaaca gtccccanaa tgtgaagttc 180  
cccnccngt gtccatgtgt tctcattgtt caatttctcat ctatgantga gaacatgcgg 240  
tgtttggttt tttgtccttg cgatagttta ctgagaatga tgatttccaa tttcatccat 300  
gtccctacaa aggacatgaa ctcatcattt tttatggctg catagtattc catggtgtat 360  
atgtgccaca ttttcttaat ccagtcctatc attgttgtag atttgggttg gntccaagtc 420  
tttgctattg tgaanaatgt cncaataaac atacttttnc tgttttctta ataccaccan 480  
gaattaaaa cccttnggggt attnccc 507

<210> 9922  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 9922  
cctcaggcac tttttatttc atgctgtgcg ggggcccttg tcccaaattt gtggccacgt 60  
gtccangtgt ctggggggant gggccaaaacc tgaaaaaaga aggccctgct ccaaaaaatcc 120  
ccangttgtc cctgttgacc tatagggang tctgacttca ggctgtgccc tcctgacccg 180  
tgagcagtc tgaatcgctg gctcctattc tgtcacacgg ggtgggtagt gccaaaaanca 240  
gcctcctgca ncccttggcg tccggaanag tgacagccac attcaagtct ccctggcacg 300  
tgaggtccat ggtgcccctg actcatgtcc tggctccagc caatanccca ncccccatg 360  
gaaangttcc ancatgtgca aaaatgcaca ttggccangt ggctgcccc cggaaacatt 420  
tttcaaaaaa gcaggggtca ggtnacccaa tntccaaaa tctcatggaa aggtcccacc 480  
cattggcccc cccaanccaa ccacancagg gtttnaacn cnaaacccc 529

<210> 9923  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 9923  
cagagtcaat aactttatta gaaaaagatt aatactaaaa cttttcaatg acagagacaa 60  
tcaactttgt aacagaaagt cagagatact ttatttttac ttctaaatcc aaaggntaag 120  
tagagcagag ttgtaaaaat gaaatccac ttagtctgat tcacacgaat actaacgttt 180  
aatcctgttt tcaaagtcca agattgaaaa cttgcaatta aacactgagc aagccacatg 240  
tttaagtaat atttcttaaa agtctttaa gaaaaaagta tgatacagga cctaagtttt 300  
cagtggcata tatattatta acacatgttc tgaaatctgg taggtcacat cagtcctgaa 360  
ttaactttta ataataataa taataaaaaa actaactgag ctttatactt tttctatgcc 420  
ctatagcttt ctttccctca ctttttaaat gtcgatcttc actctatgcc gtntcggta 480  
ttctnccaaa aatctcnaac agtatncccc ngtcngatcn gaggtcttat caaatcagtt 540  
taat 544

<210> 9924  
<211> 366  
<212> DNA

0962469.072800

<213> Homo sapiens

<400> 9924

acggggaaga	gtggactcaa	tttttatttt	tgaaacctca	tgacacagagt	tccttatatt	60
ccccaggtcc	cacaagagta	ccagggtgcc	tttcagaacc	acctttctaa	acctctgccc	120
accactgaa	agcaacacgg	cccttcacag	cctggcttcc	ttcttttgac	acacagccct	180
tccgctccag	tggagaatcg	ccaaagatca	tgaagggtaa	atagtctcct	ctgaaccctt	240
ggtctgggaa	acccgtttca	accccggggg	gagcccantg	gccactgggtg	ctgccaagg	300
gctgctgtgg	ggcanaaata	acacacanaa	gaaaggtngg	ggtggnagga	accctccan	360
aanca						366

<210> 9925

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9925

aaaggtgaaga	ncacttttatt	cttatttgaa	ccacactgta	ttgttgatta	cogantgtga	60
aagtagtatg	ttcagantct	tgttttatgc	ctttgtagct	gtgttgccag	catttgaagg	120
taactcctcc	acataagcgg	caggaaaatg	gccttttttc	ccattcaaag	atccaaaacca	180
ccatccttct	tcttttttct	cgtgtataat	cacaatgtca	ccctttttcca	aattcaactc	240
atcatcttgc	ctggcttgaa	aagaatacaa	ngccttgcaa	agtctgctgc	tgagctgggc	300
tgcaccaggg	gctggagttg	aaaaactgga	ttgctctgcc	caccanaaga	tgcccttgctc	360
acaatattct	ctaattctct	cattaaaaaa	ggccgagata	ttttcacata	gotatgagta	420
tgctcctttt	ccctcccctg	aaanatggaa	ttactacnag	gatggctggg	ttgaagtctt	480
tgctccaatt	tctgtacat	tgataacagt	ttgttggtt	cncctccaaa	aggtctatatt	540
caaattgtcc	ccnccnttaa	cncnctntt	t			571

<210> 9926

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9926

gctcacggcc	atgattttatt	acagtgaag	gatacaaaaac	aaaatcagca	aaggaaaaaa	60
nacacatggg	gtgaagtcag	gggaaactaa	gtgcaagctt	ccaanaatcc	tccgccagt	120
gaatcacaga	ggatgagctt	aattctccca	gcaaccagtt	gtaacagcac	ttgtgaaaca	180
ctgtcaacca	naaaagcttg	ttagagactg	agtgcctggg	gtttttactg	ggagctggtc	240
acaaaggtag	tctctgcctg	gcacatacca	aaattccaga	ctcccagaag	gaaagcaggt	300
gttcaggaga	aactatatig	ttttacagtt	tanatatant	aagctacttt	gatcagttct	360
gggaatggtg	gaagccccct	gaactccaag	ttcccanatg	ccaatcaagg	gccaaccttg	420
taaagcaagt	ctctaangtt	aagtantcag	gtcgttcat	taacactttt	ttctgcacag	480
caattttatc	tcacattttt	tcctccatgc	ccataaatac	ncatttcctt	aattntcttt	540
aacnagttta	ctatctccgg	tttccccctta	ataatccaat	an		582

<210> 9927

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9927

acactgcttg	cactttat	ttt	tgtacagaca	tttcattaat	tattactcaa	ttttgaggtg	60
caaacccttct	gaatatagct	ttcat	tttttg	accaaacaat	ttgttatggc	aataaataat	120
gatgcattga	aaaaccaatt	tttgtatttg	atttaaatgca	ctcttacatt	taagaaatta		180
tatatacatt	cttgaatttc	aacttaccaa	aatagaatag	cttttattta	acagcctaag		240
cttttgtttt	cctgacaaat	actgaaactt	tttgttacat	taatgctgca	aagttgttta		300
tcacctcaac	tttctcactg	ctttgctcat	aactaagtgt	gattacatgg	agagagaaag		360
ttttgtaaca	gtaacacatg	atttagagtt	taaaatcata	tcagaaagat	gggaattatt		420
taaatatacc	ttataaaaaat	aagtggctta	atcaatgaaa	aaaaaaccca	ggggtttttg		480
gcttataatt	anaaaaataan	tntatcctta	gttatagtta	attaaaaaaa	tcaccaccta		540
aaanttaaac	catccgaant	tttccttacc	gaaaaaattt	tt			582

<210> 9928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9928

gttaattttt	tacagcttta	tttttagacag	atagtttaag	aaccaaagac	atacctctgt	60
aatgataaag	gaaagaaaac	aagcttttct	tttaagaaac	caaagagcac	aaaataagac	120
tgtttcatta	tacataatca	ccacaggata	ttaggcactc	tgacagggtt	aggcaanatt	180
cttggtgtga	ggtgaagcac	aggcacttta	ttgttacagt	gctgctgatt	ctaattttga	240
aggtaggtat	tataaaagtc	tttacttgtc	accttatttc	tggccccaac	acagcagcct	300
atagttttta	aagttctgtt	tctccctggt	ctttgttcgt	atacacatcg	aaagtaactt	360
aaaaacaagg	atccaagggg	gccatacttc	atatgttatc	taaatgttaa	tatgagaact	420
caaaagtagg	cagattatat	gaatacatat	tcttacctct	gctacaaata	aaaacacccc	480
aaacccttcn	tcatactttt	attaaaattc	cgatnttaac	tgtnnccttt	atntccattc	540
ctnaaaattt	ttattgctta	atnaatccag	atnttttttt			580

<210> 9929

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9929

agaaaggcag	atgatttctt	tattgtnaag	acagcagtta	caaaagagaa	taaatatgac	60
attaggatat	atttgttaaa	aatacaacaa	aaacccttag	tatttgtgag	caaccccnag	120
aactcacaag	tatgggggat	aagaacatct	acagctggat	accctgaaac	agatgttata	180
aactggctaa	tggtgagtat	ggccatgact	ttggggatgt	ttgaaaggcc	ctggatctgt	240
cacttgggaa	cgtcagcggt	ctactgtaat	acaatttgca	cagagtcaga	gtgaacagga	300
accctttttac	tcatttggtat	cctaactatt	ctttcgttct	tacagtgaaa	ttattacagt	360
atttaanaan	tggggaaaaa	ggctgaactg	ggaaanacnt	anacggagcc	nngtttaa	418

<210> 9930

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9930

gtgttaaaat	tactttttatt	cagggatgaa	aaatacaata	tgtaaccaga	ttagatgata	60
gtctgtgatt	atttcttttac	cacatatttc	aaaagaacta	catacttact	tcccattgtt	120
actgcaatat	atttctttttt	atttattatt	acttagaaag	ttacaatgta	ntgtttttacg	180
tanccttttct	ttaatagcag	atagaggaca	ttttgcatac	aaatacaggc	agaaaaaaaaa	240
ttaacacatg	acttttttaaa	gtaagaacaa	gggaagacac	caaattctaca	acttgaggatt	300
gagagctcag	ggaattgttt	tttcttttaa	taggtgcttt	cttgggtatg	acatggcctg	360
ataaaagctc	tagacttttg	agactgcagc	agcataaagc	agtttccaat	gcaatggatg	420
aanatngatc	tgaagggtana	aaagggtgcn	tggctttccc	ttttatatta	aacaattttc	480
ttcctttcca	aatatctctg	ctgccaataa	aaancctggc	cccnaccccc	ccancctattc	540
caaataatac	cattccactt	ttaacccccn	ctcgggccat	tccccttaaa	aaaacccccnn	600
naaa						604

<210> 9931

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9931

atgaataaga	aagcttttta	ttttacaggt	ctttgtggga	agaaacagaa	agaaatcaca	60
aaagcaatta	agagagctca	aataatgggt	nagaaagaat	acctcaacaa	ctgaattgag	120
ctagctgaaa	ttttgctcat	tatgttttgt	caagaacttt	aattatctct	ttacagggtt	180
tatgccagtt	acatacaang	atcctgcata	tctcaaggac	cctaaagtgt	gtnacatcag	240
atatcgggaa	taaattctat	cacgttacca	ctaataaact	tattttacag	taagtgggtg	300
tatgatgcca	atactgactc	aaaccaacct	ttggatanaa	aagtgtttga	ggaatgaggt	360
aaanaatgac	acttccccct	cataccaatg	tccattaagc	agattgctta	tttaaaatgt	420
taacactcnt	cncattttat	ctatgttgaa	taaaaatggn	tongtgnan	tgtcctttan	480
atctgatccc	ccaatagctc	ctaccataat	cccttccat			519

<210> 9932

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9932

gatttaagga	atttctttat	tggaattcca	ctttacctcg	ccacaaggga	gctggctttc	60
atgacaaaga	gagantgagc	cctgaacaaa	gtattcggtt	acatttttaca	acagacaaca	120
tatacatgtc	ctgcatgaca	tctttacaat	aacacattcc	aaaaacaatc	aaacatttaa	180
caggattatt	aagaaacatt	aatttccttc	tctctagatg	actgggtactt	tagctttttta	240
gcttctgcaa	taaaatgcgt	tccttctcag	catttctatt	cataggaatc	cctgaatcac	300
ttctgtcatg	taagggtgca	attcatgttg	acgggtgtgt	ccattantta	ctgaatgtgt	360
caaaatcctc	tccacggtag	aaccttttat	tgtagcataa	tgtgtgaata	cacttccagg	420
ttatccctcc	tccnaattc	ctcnttcntt	atgggaattc	ntctgaaacn	ttnaaaaagt	480
tcntcc						486

<210> 9933

<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 9933  
gacgtaataa tctatTTTTA ttcattTTTA atcaaagaga ccattccatt tcctaacaaa 60  
caggtnagtt acaaaagtag tccattTTTAc ttttcatcag tctttccctg ttttgaacaa 120  
gtttttttga gaattcTTAg ttttagTTTT tgtttagctt acacactgaa aattttgaga 180  
agcatctaaa aaaatccaca attagtGcaa aaaganggga caatacttta agtcattcct 240  
tctataaaaa gaattaaggt tactaaatgc caattTTTaa gcaaataatat agtttcctat 300  
ttgccttctg aaagacagca gatataaaaa tagttcaata ttangTTTaa caagggtttg 360  
aacaacacat gttactatca gctttatTTT accTgcaaaa atattTTtagc tacacttgga 420  
aaaaaataaa cttganaata taacttcccn tttcttangg cngaagccag aataacctatt 480  
cntttccntt taaattgnaa aa 502

<210> 9934  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 9934  
gtacactttg ggatttatta agattctaga atttaaaaac aggaaaangt gccattagta 60  
aaaactccat cactaacatt ttggtaccac tcgtanagcg tcacataaat attcagacca 120  
tgataactca ntgcaggaat gttatcaaat atttccatgc aatctggaac tangaccaca 180  
gctggcaatt gggggTctga aagcccGaca tcccttacgc tgcttcctac atcttgacaa 240  
caggaagcca agtgatacta ngtnntgcac tacaacagtg aacataaccc ccctctgttt 300  
ttttgccnng tttttttaac naccaaccna aac 333

<210> 9935  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 9935  
ctagttcctg taacaaatgt attaaatatt cattctgaga attaatgata ctggcactag 60  
atggtgctat cccatcaggt aagtcaattc ctttaaaaac aacattcgat ccttctgatt 120  
gtcgtaaaag actagtTTTct ttttcaagat ggtctatctt taaattagct tttgccAact 180  
gctgtgaata atttatagcc tctttccgag attccctgag cccctgtctt aattcttcat 240  
ttcttccggt aagctgatca acttgggctt tcaaatgcan actcgcatca aanattcctt 300  
ctgcattctt tgattctata gcattaaacta ntctttcgag gctagggata attananatg 360  
tttctcctcc tttaacatca ggatctttct gcatttcctt aattgcttgc aatatttctt 420  
tcataccttc ttcaagttgc ttattttctt cnactaattc ttttaattta ttctgaaatt 480  
tggttatcac tgtcctactc ctttctaaat ctctttcttt ttcaattaat tctcttgaaa 540  
naaatcnnc cttgaaaggt gcnnccccc ntttttgaag ggcca 585

<210> 9936  
<211> 389  
<212> DNA

<213> Homo sapiens

<400> 9936

cagtagacaa	gcaactttta	gtttttacaa	gttatagaaa	acgcaaattt	tcatagcatc	60
aatttttagaa	aagaaagatt	aaggttccca	tctgcggtgc	tttttccaat	cgcgccatca	120
cccgtccctc	tgaagaagca	cgcacactcc	agatgtctcc	ttcattgato	acattttctc	180
ctggctgtct	ctattcctaa	gtcagagtta	ctcttgctgc	tgctgctgct	gctgctgctg	240
ctgctgctgc	tgctacngtg	gtggcggcgg	cgggtgggtggc	ggtggctgcc	caagcctcat	300
ggttgtcagc	tccatgcctc	ctgaacttca	ctccactgaa	atctggttgg	gtntgaaana	360
naccnngtgg	aatgaangac	aanaaaanc				389

<210> 9937

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9937

gattgtttgg	aatttattct	cttaaataan	aatgtaacat	ttgttaaaaa	aaaaattaaa	60
agcacgacaa	cttggtttca	cagtaaacgg	caaaaacaaa	gttacacaat	taaataaaaa	120
ctcacaaaaga	aacacaccaa	gaactcacia	gagcacaagt	taaaaacaaa	ggcaaaaatg	180
gaagtggaga	naangcgggc	agtaaacagg	cagcagtggc	gtgttccttg	gcacagctaa	240
tcctctcctg	ttgggctctc	gtaccgccgc	cgggaanccg	gctggctgtc	cgcacctccc	300
gcaggcacc	caagctgaat	ggctccggaa	aaaaattgaa	accccttggg	tgccctgctc	360
ngaaccttaa	aanggctatg	gtggaaactc	cttttgggga	cancctaaga	aattgttccat	420
tttcttgccn	aaaaanaact	gaaagatgcc	ctanccnccc	naaaaataag	aattgggctc	480
aaacggctaa	ctcctttgga	accnaacagg	aaac			514

<210> 9938

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9938

ctgaattgaa	tgctgcattt	attatagtgt	ttttattaac	aaactttcac	cagaaagtgc	60
cgagtgtgtt	aatacancag	gcacattggc	ttccatgttt	ggcatttgac	agtccacaga	120
attgcacttc	actctcacia	ttctgccaca	actttgtgaa	ttatttgggc	aagacctaca	180
accagcctcc	cccattaaat	gattaaatag	gacttttggg	tcattctgat	tgaaatgttc	240
tgagttcaca	cttgcacccg	tctgtgacaa	gctcanctcc	actttccctc	ctgccttggt	300
ttcantccct	ccactgcctc	canattgggc	acgtctctat	ttttacagaa	gtnccttttt	360
tttattctcc	ggggtcgcan	acactttttg	aattacgaat	ccaatngctn	ctgccaacaa	420
aaatnacaan	aggctctgcc	acctttggga	aaangcnctc	ctatgc		466

<210> 9939

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9939

000220-6942960

atcacttaac	atttaataat	tgcaaatata	tttattacaa	tttacagatt	aattatgtta	60
tatacacaaa	tataatttta	actataaaa	cccaactagt	tacattttaa	ttattgatct	120
gtagaagcca	atttagagtc	ttctagtccc	ctaactttac	cttcctttaa	ttatacaaaa	180
ataaaatctg	atagttttga	tttcaagtta	aagatgaaga	agtgttacat	ttcatcactc	240
agaaatggaa	cttttacctg	tctgtacaaa	gccttttaca	tgctacattg	acacttaaag	300
caccattaac	aagactttta	atgtttataa	atgttttaatt	aaaacctccc	aagaatttct	360
ctttaagatt	acgggggggt	tgaacttngt	tctaactaga	aatngggatg	aaaacaaaaa	420
tttggctttt	tnctcctnca	gtccaacttt	aaaatagtcc	tttctgtcnt	nctaattccct	480
cc						482

<210> 9940

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9940

atggtattaa	atataagtct	tagcaccttt	ggcatttttg	tccaaacaga	cttcgacata	60
tgaagtgggg	acataaccct	cttcattctt	atttctccga	atgcgggtcc	agccatcgcc	120
tttgtcttcc	tctatgacat	acaatgtttc	tccttcaact	acggaaatcg	ttccttcatt	180
ctgaccttca	aatgtgtana	gagctttgca	cgtccctatg	gcagggaggg	gctcctcatc	240
atcaaactcg	tcgtcaaaa	cogtggccag	caccttcac	tcactctcct	gantctgctc	300
ctctgtgtta	cttgccatct	ggggctctca	cgggtccttg	gggggcaatt	gttgaatnnt	360
gggntgggtg	ctgggctgtt	cttaaaaatcc	cgcctctgcc	ggggcgcccn	gctctttgcn	420
ttttggganc						430

<210> 9941

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9941

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	n				441

<210> 9942

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9942

cacattctag	cactttattg	gaacttggtt	gtgtacatca	atgagatcac	atcaaantaa	60
aagcagcatt	ttcacacaat	aatatcccga	tatctgtgct	atcttcttac	ataatttaat	120

aaatcccaan	atgctcctga	ttttggtatc	gaananccttg	agtgggtccag	aaatatctct	180
acntaaatat	aaatcatcac	atctnaaata	accatcattg	ttttagtagg	tcccaanagt	240
cctgggaaca	cctcttaaaa	tataattgcc	ntaggctggc	tgcataactg	gtgggaagga	300
attaaagggg	tacacatgna	cctaattaca	gcanganctg	ggcagangga	canacacaan	360
gggatggggg	gcanaaatcc	taaactgggc	aggga			395

<210> 9943

<211> 292

<212> DNA

<213> Homo sapiens

<400> 9943

gtcattttat	tcttttaata	agaaactttt	gcttacaaaa	acaangtgta	aaaagattta	60
caaaaatcat	aaaaacatga	tttatatttc	acacttgaga	gacaaaaaca	agccccnnaa	120
catggatttt	aatggagggtg	gtttgcttca	ttttaaaagg	gaaaaaaaaa	aaaggaagct	180
gtaaccatac	attgatgtta	acatagcatg	aantttattc	ttgaanaatt	tacnttggtg	240
agcgatatta	ggggaanaan	ccatttggtg	ttgcatanca	ttttantgcc	ca	292

<210> 9944

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9944

gagacggagt	ctcgtctgt	cgcccaggct	ggagtgcagt	ggcgggatct	cggctcactg	60
caagctccgc	ctcccgggtt	cacgccattc	tcctgcctca	gcctcccaag	tagctgggac	120
tacaggcgcc	cgccactacg	cccggctaata	tttttgtatt	tttagtaaaa	atgangtttc	180
accatgttgg	ccangatggt	ctcaaaacttc	tgatctcaag	tgatccaccc	gcctcggcct	240
cccaaagtgc	tgcgattaca	ggcatgagcc	accacgcctg	gtcaattttc	tttaactcca	300
tttttatcca	actaatcttc	aaaacacttt	aaanatttag	ttataccaac	ccnaagtta	360
catctatatt	tgtgttntgc	aaatcctcaa	aaaaaatgcc	atccatgcca	aaaaatgaaa	420
aacatttttc	cccatttaac	cttcnaaaac	ctttttaaaa	aaacaaccct	atatttcccc	480
anttcaaatt	ttacccaaaa	cttcnttaaa	antntntaaa	aaaaaanccc	tgcn	535

<210> 9945

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9945

atnttttnt	tttttttagt	ggncaaaaaa	actttattag	cttagtctcc	acccttttaa	60
atgtactcta	ggtacaaaat	aaacattata	cacatataan	atcagtcttt	ccaacttttag	120
aatgtataaa	taagaatgac	atttttaaaat	aaaatagttt	agtcacagtc	acacaaaaact	180
accttctaag	gaaaactgtc	cagtgaancc	gttaaatttg	tgctttcagc	tatgaaaaat	240
taaacttaaa	atgcattcat	tcttctttta	atgaaaaata	acctaccctt	ggaaacagca	300
taagcattgt	tatggtagtc	tancctcnaa	atgaaaatgt	ggactgagtt	acagtttact	360
ggttggtanc	ccacctaaaa	acccttgaaa	aattaccann	cgatcaaagt	atttacataa	420
tttcaaccct	ttttcttang	anaaaaggta	acacanttcc	ttaacctctt	ttaaaaggaa	480



ctttgaaatt aaacottatg gtcncaactt tcattcaaaa atgttgotta aatatcaaatt 540  
ttctctcnca nacnccatnt tcatttcctc cgaaacctcn ctggttnc 588

<210> 9946

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9946

actaggttca cacaaatctt tattaattaa aataggaacc attacaatca acacattttt 60  
gccaatgaag aaataagttt gtttactcct gtagcataaa aatccatgct tccaaatttg 120  
acgaactctt ggaaagcatt ttctgtgtcc tgctagtgtt ggaagcaatt tccctgcaaa 180  
acgttgctga gatgcctaaa naagtggtag tttgttggca anaggtcagg tgaatatggc 240  
anatgaggca aaacttcata gcccaattag ttcaattttc gaaacgttgg ttgtgcaacg 300  
tgcggcccaa tttttgtcnt aaaaaaatt gggccctttc tgggtggccaa tgccggctgc 360  
aggcattgca tttttingtg cncctattaa tttgctgaac ntacttanca aatttntggt 420  
tccccctgaa attcaaaaac cnt 444

<210> 9947

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9947

aggtttggtta acattaacac atgcttttatt caaganataa tattcaaaga gttaaattcct 60  
aagagttatc caccctacag taaaaagggg aagtgggtac cacttatgac atgtacataa 120  
attccacttt tatatttctg aataaagctg caattgcttc ttgatagag ccattttctta 180  
aaacttttgc taataaggct atgtgaactg tgttcanaaa ctttgacaac atgcacactc 240  
actcctctca aagtcagtac ccaggatttt cactccaggc tgagtaccta ttaagtaact 300  
aggacttcag actgcatgtt actatatgaa ttcaatttga ctcacctcca gtatgtttat 360  
ctaccacaac tattgtttta aataatcaga tgaatgttta tcataacttt ataactcccc 420  
caaattatac ttcagtattt aacatggtag tttcaaaaaa taaatattca agggcccagt 480  
tttaaatttt cctcccatgt tatccacaaa agttgaanaa tacatgtttg gancccnact 540  
cncaaataat gttaccttcc tttaaaatta cttgttgcca taaaaatta 589

<210> 9948

<211> 295

<212> DNA

<213> Homo sapiens

<400> 9948

aaaatgctga ctggtgacct actaaatgga tttcataacc cactgtgtct tgactcccgg 60  
acagtgtgaa aacctacata caagctcggc ttccagagcc tgatgctcca ggctggaccc 120  
tcgtcggctc aggcaagctg ctctaaccag gccccactcc agctccagct ccccaagatg 180  
ggggttagaa aaacgtcnac atgcaggag ggccacaaac aggctgggct ggcatgangt 240  
atgangtatg aaccncatgg ctgagcaana acctgggcca ggtcntanac tocca 295

<210> 9949

<211> 213  
<212> DNA  
<213> Homo sapiens

<400> 9949  
aagatttttc tttttcttca aacttttagac ctggctcacg gcgagcctta gaaaagcagt 60  
gagtgccaca gacactgcag ggtgaggccg aggttgcccc gcacggccca gcaggtcctg 120  
cctggcagtt tctgtcaaaa aggctgggac acacaggatg gggcgcgtta acacagggga 180  
ggggggggcg gatttanenc nccntnnacc ctn 213

<210> 9950  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 9950  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
nnnnnnnnnn nnnnn 554

<210> 9951  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9951  
cttcccagct tgagttttat tataaagaat aatacataca gttaactatt ggtaagaaac 60  
gtatattaaa caaggtgtct gtagataaaa acacataaaa caaaaatatg tattgggttg 120  
atgacaaaaa tgtantgatc agaggcgtgg aagctaaccc tgtatttctc cangancagt 180  
ggttcagtat gggctaatag tgttcacagt atcttttagag aacatactcc agcactcacc 240  
aaggccatgc ttcttgcac acagctatgc ttcttgcacc caccaaggcc atgactcttc 300  
caggtaaacc caaataaggg agaaaggagg caataacagg agcggggang agtccctgaa 360  
atcccctcct tttccagaat acctaataag cattccaccc cttattataa aaaacatccg 420  
ggctgggagc ggtggctcac acctgtaatc ccaccacttt gggaagataa gcagcnaatc 480  
nggaagtccg gaaatcaaaa acaccgggct aacacggtga aancctntcc ctctaaaaat 540  
taaaattttc ccccggtttg ttgccggccc ntttncccct cnccgnggt nag 593

<210> 9952  
<211> 403  
<212> DNA  
<213> Homo sapiens

09629459.072800

<400> 9952

gagacanagt	ctcactctgt	cgcccagcct	ggantgcagt	ggcganatct	tggtcactg	60
caaactctgc	ttcccagggt	caagtgatct	tccagcctca	acctcccaag	tagctgggac	120
tttaggtgtg	tgccaccaca	cctggctgtt	ttgtattttt	agtacagatg	aaatttcacc	180
atgttggcca	ggctgggtctc	aaactcctga	cctcaactga	cccacctgcc	ttggactccc	240
aaagtgctgg	gattacaggc	gtnagcccca	agctgggctg	cccttgagga	actgantgtg	300
gctctcaggt	cattcccat	attcacatca	tgaatgaaan	anttgtcaga	ngcaagtnnc	360
atgttaggta	atggggcgac	agcacactgg	gancaangtc	cca		403

<210> 9953

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9953

acaaaattca	atctatatan	antttaattt	gtgcatttgg	ggaaaattta	tgantgcaaa	60
aaacacttgt	tttcttanaa	tgacatantg	aaagggacat	ttcatttgaa	tgcatagtgt	120
acattctaaa	atataccta	ttctttacaa	agtgccttgg	cagtcncata	cacatacagt	180
aatagcaaaa	tatatattca	ctctataaag	cttaaaaattt	taaatctgac	taaaatatat	240
atatatttta	aactacaaaa	aattagtgct	ttcttcagct	taattgtgta	aatagaccct	300
gccttcta	tttttttagt	attgacttct	attaaaaaaa	aaattctgta	cactgtgtng	360
ttacaaaatg	ctgtcagttt	ttaatgctaa	gancctattt	tagacattac	tttctttgct	420
atttgagaac	ccaaaaagtg	agcagactgt	ntccaaaat	ntttanggt	ttaattta	480
gttgttttac	cccgttta	ttaaacccca	aaaatnagcn	aaattcccn	atgttccttg	540
gccaggaaat	aactggnctt	ttaaaaactt	ta			572

<210> 9954

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9954

ctgttcctaa	cacaaatgtg	aattttattg	ttgatttgat	atttaaaata	gtactttttac	60
aaaatcatct	cagaaaatat	actacattta	ttaaaattcc	tacaaaccat	tcagaaaaat	120
attaaaccct	ctaaccaacc	taacactcgc	tttcagaggc	acttgtgatg	attttcacag	180
cttccatagt	tgcaaagaac	aaagaaatca	tcttccaaca	ggggtggaat	tagataagaa	240
taatccaaaa	aataatttat	tctttacaga	ctcacagatt	gcttgatgtt	taggggctct	300
tacctaggat	acctaattat	tcaaggtttt	cctaatttag	tanacttttt	cattgcctac	360
aatctacaat	attcancaaa	gtattaaggg	aaaatgaacc	caagaaacct	taaccacctc	420
aaatannttt	atggatatac	ttaaactgtc	agttcaatct	ttatcttaan	acttganaac	480
tggaatgccg	gaaaacnaac	tttgggtgga	attctggaat	taaaaaantt	aaacctgggc	540
gaantaagggt	gtggcacctt	gtttntttnt	tccnaaaacc	caaccctnga	c	591

<210> 9955

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9955

gagacggact	ctcgtctgt	cacccaggct	ggagtgcagt	ggtgccatct	cggctcactg	60
caagctctgc	ctcccaggtt	caaganattc	tcctgcctca	gcctcccagag	tagctggaac	120
tacaggcacc	cgccaccacg	cccggtataat	tttttgtatt	tttaatggag	acgggtttca	180
ccgtgttagc	caggatggtc	tctatctcct	gacctcgtga	tctgccacc	tcggccttcc	240
aaagtgtctg	gattacaggc	gtgagccact	gcgcctggcc	tcaaggtatt	tctttaaaaa	300
tggaaattaa	tatcaaaaag	taagcttttc	agaaaacaca	ttcctaactt	taataaagac	360
aaaagaagcc	atttccaaca	aaaagtaaca	cttaatatct	taagactccc	cncaactttc	420
agattttaat	ttcaaccttc	ctgggnaagc	tccctgcttc	ttagcctttc	catgtananaa	480
tcatctgttg	atcctttccc	aatacacata	cattaaatta	gggctngggg	aagggaatt	540
ttctttanaa	tcngcctcct	ttggtontga	tttcancaat	ttaaa		585

<210> 9956

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9956

gagaacacat	tcgtatTTTT	tgacccanac	caaaaacttt	tggtcctttt	taacgggtaca	60
ttcctacatt	anaaaaaataa	ttagtataa	atatattctc	tttttgtaca	aattcaattc	120
cagtttttaa	caccctaatt	cacaaaattc	atgccaatgt	atgcgctgat	aggctgaagc	180
caagctgtga	aacttcanaa	cacagttaag	ggcagcaatc	aagcccgttc	caggctgacg	240
cgcagggcgt	tcttacatca	catcccgggg	tgccagctca	accccggcac	gtcagcacct	300
gggtgaaggg	agtgcggggc	actgatggga	tcaatacaag	acacagaccc	cttccgtcgg	360
gagctggcta	atctctacag	tgccccacac	cactgatttc	tatcaggctc	caagggctcc	420
cattgaagaa	aaaggctttg	nccctctgaa	tcctggggga	ntttttttcc	nggcaaaggc	480
ccntntttt	cncaaaccnc	c				501

<210> 9957

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9957

aatatagaga	actgattatg	ttcacttgta	acctgtcatt	ccaaaattct	tcaggatggt	60
taatgttcaa	gtgtccatat	tcccagtccc	actggatgcc	tgccangatg	caaccatctg	120
aatgagtgga	agtataatgt	ttgcaccagg	tattatatta	ggagccttga	accagaata	180
tgtctgatta	agtcttttag	cccaataatt	tgccactgat	gccaagtctg	gtaattttga	240
aggagaaagt	tcaaccataa	cgggggtgata	cagggcaccc	ccgtactcaa	aaaactttca	300
aagtgttttc	taaacaagtt	tctctttctc	cntgaataca	acgtcagtca	caactgatgg	360
cagtacaatc	gatccatcca	tacactgctc	taagaacatc	ttgatgggta	taatatgctg	420
tcttcatgct	ctacctgcta	ctaattttaat	ttggtccngt	tactcttccc	tggganaaac	480
naattcntct	taaatccaat	tccttttnna	ccaaaaanaa	atgatttccc	ccctgggcct	540
ccctttaacc	aac					553

<210> 9958

<211> 436

09629469.072800

◁213▷ Homo sapiens

ctgtgtcatg	atttataaatt	gtatgcatgc	ttt gatcttt	ctcatcacag	gcagcactga	60
naagtgaagg	aatatttggg	aggatcagaa	gcttgggtcct	gattttgcc	tcaacaggaa	120
cttgatgact	tcaagggagt	cccaaacc	tgggtttctg	ttttctcaac	tctaacatga	180
ggggctanat	gcctctggtt	tagttagtct	ccatgatggt	ttagttcgtc	tccatgatcc	240
tgtgaatttc	agatgttgaa	aatctttgga	aaagccctga	aagatgaaca	ggtaggagtt	300
attgtctata	ttttacccat	gaggaaacta	aggacctggg	aatctanang	gctcattanc	360
ttttgaacca	gtactagcaa	tgaattcatc	tgaattctgg	tccnaactc	ctagcatgan	420
anaaatttga	nctttc					436

&lt;211&gt; 526

〈213〉 Homo sapiens

gggcacatta	taatatttaa	tattctgtag	tttaattttc	tgaacctttg	gnttataaat	60
ttttctcaac	ttacatttaa	aaatgtatca	atgcaccttc	ttcagtagta	ccacatgaaa	120
atataaacct	cgttcttcca	tatcttctac	gcaggaanag	tgaatgaata	gtaccctaaa	180
tatcccgcaa	agttactttg	tgtncttgac	ggaanattag	ggaaaaacaa	tccacctcca	240
tatcttgagc	agtagttaac	tagtcttcta	cctcatcttc	ccaaatatcg	tcgtcaacat	300
ccacagcata	aaacagccgg	ttaaaacatg	gtgaacaggg	tcattgaaat	gtttgtaagg	360
gtttgctcta	caaaaaaaaa	catgcaaatc	cccagaaata	ttgcatacac	cngtacatgt	420
ctcctgttac	atcccgcta	attctctatg	ggantttccc	cacatggggg	gctctttgaa	480
ttctccctan	ccacccctaa	tttcancctt	ccnanngcct	cccgna		526

**<211> 558**

<213> Homo sapiens

gtgctaaatt	aatcatagag	cctttaatcc	actagtaatt	tggagtgaat	tttattaaga	60
agaattaatt	gtaagtacat	gttaactttc	gtgtcaggat	aaattgcato	ttttaaagct	120
aagtgatctg	tgtacattgt	gatagggcct	ttcactttgg	ttgaaatcct	aggtttgaaa	180
ctgtgcctgg	tttacagtaa	ctaaaattaa	ctctagctgt	gtggtccttt	atatagttgt	240
tatcatccca	atcagatata	tctcatctga	tgtcaacttc	tgagtccaat	aatcagacta	300
notccanaaa	gcacagggaa	agtgggtgtg	acctctangg	actgccctct	gctttgtgga	360
aaggcttgg	taattttcca	ttanagattc	aaccaaccac	cgaccaacc	tggaaatttaa	420
taacaagctt	tttgttgata	agttttatcn	tgaaactagc	tatctgttct	aagggaactgn	480
atcctccttt	gaaacacccc	ggcttnaaaa	atccnctgaa	ataacnnttg	gggaaaaactt	540
gtttaaaaaag	gnnnntttt					558

**<211> 583**

<212> DNA

<213> Homo sapiens

<400> 9961

aagaaacagg	tctcactctg	tgggccangc	tgggantgca	atggganaat	catagcccac	60
tgtaattca	aattcctggg	gccaagcaat	ccccctcag	cctctgggag	tagctacatg	120
tgcaacatg	cccgttaatt	tatcttaatt	ttttagaant	taggtcttgc	tatgttgccc	180
aggccggtcc	tgaagtcctg	gcctcaagcg	atcctcctgc	gtcagccacc	caaagtgcct	240
ggagtagaag	tctgagctac	cacgcctggc	cctgaaagct	attttatgga	agaatttaaa	300
ctaaagatct	ccaaatatta	ttcataatta	catacccatg	ttggtatcta	tgtttactta	360
tctaccattt	ttataggatt	tacaatatga	caatataaaa	taatcgtctg	tttcccccaa	420
atagagcata	agaaaaagac	taaaatttgt	tttattttatg	gtacnaaant	ttgttctccc	480
aaatatttta	aataaaatat	tgaatatgct	cnttatttcc	gaaaatctaa	caccgggtna	540
tncnaaatcc	aaaatttttc	ctactcnntt	gnaaattgaa	ttt		583

<210> 9962

<211> 477

<212> DNA

<213> Homo sapiens

<400> 9962

cacaggatga	caaactatat	ttcaaaaactg	aaaaaaagca	aaatgtttat	atctcactcc	60
tgaacaacaaa	attaacatca	gacttaagaa	aataaggcag	atactagtag	tactaagttt	120
tcttgaaact	gtaaaatata	tataaaaatg	aaaagatacc	gaatgtggac	agctccacat	180
tgatcaacaa	atgttaacat	tctcaatctc	tttcattgac	tttaaaaact	atgtnataga	240
aacagaaaat	gaactaatac	acaaatgaag	tacaaatatc	ataattttca	gaaggtttga	300
tttttcgagt	accataaaaa	aactgaaata	taaatatttt	ggaaatagtt	ctaagaaata	360
aatatgaaaa	tatttttggt	ggtgtcntaa	cacanaant	atccnttttc	cccaaatgtt	420
agggatccat	tattttatga	attaatttgg	gggnccttgt	tttatccata	ttgncnt	477

<210> 9963

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9963

caaggtgagc	ctgatcacag	cctcggtagt	atttattttg	aaataaaaagt	tcccatccct	60
tgtaggcctc	gctgtgaggc	acaacgtott	cgaggggaag	ttgaantggg	gtctttottat	120
tactgggtcc	ctaaaccgca	ccttctggta	tcttctaagg	caattctggt	accgcactgt	180
gtctgggttg	gcctattttaa	atgtctganc	cagctgttcc	agnatttcaa	tgantttctc	240
ctcttcggcc	ggtgaggaag	accctgtnnc	gaaaggcaag	tntgtaaaaa	ctggcttccg	300
atctaaaagt	gananggaac	gcaaaaangt	gtgagctgct	gcancgtggc	tgggtccatg	360
tccctgtgct	gctcangcct	tgaacgaccc	tgctggantg	gcagcaccct	acagctgtta	420
aaccccatcc	ctgctgtcaa	aagtcccnca	nggatcaggc	ancatggatt	gatatnttaa	480
ntgcatttgg	gaactgggaa	gctgcaccca	ggntngacag	gaaaacac		528

<210> 9964

<211> 581

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 9964

aagaaattag	acttttatca	atacacaaat	aattttactt	aaaatcaacc	cagttacata	60
tttttaaaaa	attgcagaac	ctctccacac	caatgtccac	agcctagaac	aggttcatgt	120
gaaacctgca	gtcctacccc	ggagcatcag	ttaagtgatg	gtccaggtag	tcactgacac	180
gtttctcttg	acactgagat	ggtcgcaaac	aaaacaccgt	tcttgacctg	atgaagcaag	240
agttcacata	aaagagcttt	ataaaatgtc	tatgaaggag	aattgataat	atcagaagag	300
ctccagcact	tcaattgaat	ataatcctct	attattcttt	tcttgattta	atttctgtag	360
ctcccgaaaa	cttacttcaa	tcttggtgag	ctcagaataa	acagatatct	gagattttac	420
aagcttggtt	agatttatca	gtagcctctt	tgcttccggn	atcattacac	aacagttaaa	480
ttcgctccag	aagttgactt	tcccatccat	aatctgggtc	agggaggggg	tgtttcccng	540
aaaatcttnt	tcttttgcga	cctccnggtc	ggaaatcaat	c		581

<210> 9965

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9965

aactttttgg	taatttttatt	gttttggaat	atagttatit	tcataaaaagt	gttattcatg	60
tcaaaataca	atggttttgt	actgttattt	taaaatacct	taaaatctta	tttcaatttc	120
gaatatgaca	aatattaaca	gctataaccc	atataacaga	agtttctctg	atctttaata	180
atittcaana	atgtnaagg	gtactgtttg	aaaacttcag	gtgaggaggc	agaatctgca	240
agacttgctg	actaactaga	caaganaana	aaggctggag	gangaactca	ngatggctct	300
tggatggtac	ttgaaatang	caatacagga	aatgaaaaca	gtttangttg	aagggtttg	360
aaaaagaagg	gntaaaaaaa	tttggtttta	tttgaagtgg	tgagtcctac	atgaaattta	420
tgaaaaatct	ggaattccaa	aaattggtct	attctaaaaa	tacnaaatgg	catnttttgt	480
ttcttttnaa	ctgggggaaa	agattacctn	aaacccttat	tttgaacccc	cctttgtttt	540
ataaaaaagt	ctcncacaaa	atttattaat	tcttccttta	nggcccaat		589

<210> 9966

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9966

atattttag	gcacaattta	ttttaaaatc	cacacaagaa	accagaaat	gcagcattat	60
cttcagacat	cacattctag	ctctgtttta	ataccacata	tgctaaaaaac	cgacgccagg	120
acatttctta	aatgagttac	aaatcagttt	ctgggaaagg	aatgctccat	gaaaagctta	180
tagcaagata	actcaggctt	tcagggtggc	tatggcacgt	gaattancct	tacagtaatt	240
gtgtacatag	tatgttttag	cattattgaa	tcaaaagt	caggaagtac	ctttttta	300
gcatacgctg	agagaaccgt	caatatgcct	ttgttcctgc	tgagggatct	gccattctgg	360
aggtacaaat	actgcagata	gaatatcacc	gcaggactac	gtcnagtcca	gantgttcag	420
gatcatttct	atataaaaact	acnattagct	gaactatggc	caangtcctt	gaacataaan	480
ccttcttctt	ttcattgcat	cttaataagt	taaaagccnc	taccgnnaat	gccgcctatc	540
cgttttttan	tcccctttta	ttttgnattt	c			571

<210> 9967  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9967  
gtttttttatt taaaataatt ttttaatcgg ctgatagttt taaaattatt taaaaacact 60  
atggggggggg ggatgaccca ncaatataaa ctgatattta ttaattttaa aagccaatta 120  
ggcatgtcct gttatcccag tggaaanata taaantanct atgataatga atgtgggctt 180  
tgaatttttaa aaaactttca antcttggct atntcactag ccaacaattc tgtttcctca 240  
actgcaaant aagaataata ataatgatcc tacaagggtg ataaaaggat caaatggaaa 300  
aaacagtntn ttgtggataa aggtacaaat aaaattatan atantctctt cnttccaaaa 360  
agggggggaaa gtattttctt tcaaacttgc caagggggan gaatgtaaat gctanctcat 420  
tcttcctant aacaaatnaa gtaatggttt caaagggtact gctcagtcca aaacccaaat 480  
tccccattag gatccccctt aancctaaat cccctantc ctttttttaa aaaaaaatta 540  
ttaaacttna acccccactt tccaacntga atcttaactn taaaaaaa 588

<210> 9968  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 9968  
ggaagggacc actgccttta ttgcctctgt gctgggggtcc cancttggg ttcaaaagcc 60  
tctgggggca ataggtgacc ctggacccaa attattgcta cttggctagg tcaccttggg 120  
gcttcccata ctgccctgaa aatgggtggg atganggcat gcaaacaata tgcaaatgac 180  
atgcaaacca acccanangc ctctggcaca tccatgggtg ctggaaaaat caaacctan 240  
tggcctnnga aggcnacngg gcaccca 267

<210> 9969  
<211> 449  
<212> DNA  
<213> Homo sapiens

<400> 9969  
aattatactt taagttctag ggtacatgtg cacaatgtgc aggttagtta catatgtata 60  
catgtgccat gctggtgtgc tgcacccatt taattcattt agcattaggt atatctccta 120  
atgctatccc tctcccctcc cccacccca caacagtccc canagtgtga tgttcccctt 180  
cctgtgtcca tgtgttctca ttgttaaagt gctaaacatg gtggctgact gcttctgagc 240  
tggaagtga ctgagttgaa agttattggg agacagatac actattgtat aaagtggaaa 300  
ctgaggaatt attcatgctt ccatggtinca ntattctcat gttcccttcc tccaccttcc 360  
acaagcttaa ananaaacat gccttgaaaa gggncagggt tgggtcttta tcaaaaancc 420  
nccccaccaa acnctaaggg naccatttt 449

<210> 9970  
<211> 582  
<212> DNA



<213> Homo sapiens

<400> 9970

ggtagtcaac	ttgtaccaag	tttagcagca	agangatact	tccttagaga	ctttcagtgg	60
acttaaaactc	agtttccgct	ggtgctatgt	aaagcatcca	caatggtttt	attgtactct	120
gcaatctgct	tggtcacatt	tttcttaatt	ggctggtaat	cactctcttg	actcttggtt	180
gctatgaatt	ctttcatcgc	aaaattattt	tgctcaaggt	gttgccactt	tctctccaaa	240
tttghtaagct	gagaatgtgt	ctcattttct	tgcaattgtg	tttttagtgc	ctcatactct	300
atgtttttgct	tctccattat	tttcttaaaag	gcatttctgt	gggttgataa	tatcattctc	360
tcctgatgta	atttctttat	cttttcttca	cctgatgatt	ttaaagctgg	caaatacatta	420
tatatctcca	gatcagttgt	catttgctta	atthttgcttt	ttaaaaaaag	ctgttcctcc	480
ancntoctaa	tttcnaaaaa	ccccatttct	gcaaatcaac	tgcaaanntt	naattctaaa	540
tcaatctgaa	cctgtctgtt	nattccgccc	tccataaatt	na		582

<210> 9971

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9971

atttaataac	attgtttaat	aaaaaactac	atatttaaca	gaaaagtgtg	ttaaagctaca	60
aggtaaaggc	acattgaaag	agaatgcttt	ttaaatccaa	ttttcaggga	attcacttta	120
catgtaaaata	aagcagaaaa	tgcaggaaaa	ttattttgaa	gtttttcact	acttaacaat	180
ttctgggaaa	caaagtccat	cctattttcc	catagaggac	ccctgttaaa	atataagatt	240
atattccctt	atactaggat	tcagcattca	aataaatcac	tagtccaact	tcaatgtcgt	300
agaacccaaa	aaaaatataa	ctatcctaaa	aataatataa	ttaaaatata	atttatagtt	360
atactaaatg	ggaataaaca	tatggcacac	attaattaca	aaggataact	catgttacta	420
gaaagtgcc	tgtaagaaaa	ttaataaatg	acctaaaact	aaagcattta	ggataacaaa	480
catcctttta	cttgctatct	tttaaaatgc	tgcttaggga	aatccaatgg	cccttaaaaa	540
aaattgttcc	aatattccac	ttttttggaa	acttttncn	gaaataattg	aaggcn	596

<210> 9972

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9972

gtatgtaaca	gaacacattt	cagattgtat	ttaatttaaa	tatttgtata	taagagcaaa	60
tgtctgaatg	tgccctgaat	caagtttaaa	tattgttggc	tcatactgat	tatgggtgcct	120
aagagagcta	tatatataca	catgtaaagt	ccattgtttt	tattgtcctg	agttgtctta	180
aacctgcaaa	atatacacta	ccattttttt	ttttccattg	gtttcagact	tggttcaatt	240
aanattgggt	ggggattttt	ctcttttctt	tattaacat	gttctgggtat	canaatgggt	300
ttccttctcc	atcagaggct	gggaaacgta	ttataattag	tttttctccc	ccataccttc	360
ccccagaac	aatgaaaaat	aantnaangg	tggaacnttc	ctcctntaaa	attnttgcnt	420
aacc						424

<210> 9973

<211> 550

002270 69462960



tcagttgggt	ggactgatga	ggnaaaaaat	aaatttccttt	taaaaaacia	aactggagcc	120
tatttacaaa	acatgcaaag	ggagaatttt	aagcagggtgt	tactgcagaa	ctgctcagac	180
gtgaatacag	ctgagtgaca	gaatatacct	ttactttctac	aaatataggt	cctncctcca	240
gactttcttg	aagaaatacn	ttttcagggt	gtggactata	aaatggcnta	cantgctaan	300
accnanac						308

<210> 9977  
 <211> 600  
 <212> DNA  
 <213> Homo sapiens

<400> 9977						60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	600

<210> 9978  
 <211> 598  
 <212> DNA  
 <213> Homo sapiens

<400> 9978						60
gagacaaagt	ttcactcttg	ttacttagac	tggagtgcag	tgactcgatc	tcggntcact	120
gcaacctctg	cctccccagt	tcaagtgatt	ctcgtctcag	cctcccaggt	agctgggact	180
acagggtgcat	gccaccatgc	ccagctaatt	tttgtatttt	tagtaganat	gggatttcac	240
catgttggcc	aggatggtct	caatctcttg	acctcatgat	gcacccacct	cggcctccca	300
aagtgcctggg	gttacagggt	tgagccacca	cgcccgccct	actatttctt	tctgtatgtt	360
cttgtggggcc	tggtgttttag	ctcccaacta	taagttagaa	catgtantat	ttgtggggaa	420
aagananata	ggattgttac	tgtgtctgtg	tnгааагааг	tanacatagg	agtctccatt	480
ttgttctgta	ctaagaaaaa	ttcttctgcc	ttgaaatgct	gttaatctat	gaacttacct	540
caacccccgtg	ctctctgaaa	acatgttctg	tgtcactcca	gggtttaatt	ggattaaggg	598
ctatncaaaa	tttcttttgt	tnacnnaatc	ctgaattcnc	atgcncctta	aaaatctc	

<210> 9979  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 9979						60
ggcaggccaa	tgcaagtttc	tttactgaaa	ggtgggtccg	tttcaaaagg	acagttttgga	120
cacagaatag	acaaacatta	nagtttgana	gttttccctt	gagttttgca	aaacaaaaca	

09629459.0.2300

tctagtaact	tcagtattca	ccaggaaaaa	ttccccagtg	cctctccctc	cagccctttc	180
tcctgcctgc	cttcaggatc	accccttgtc	tcatagggtt	tcatttttca	gttctccttc	240
ttggatanan	tctatcctgc	cgcaggtga	nccctctctt	cccatgccaa	atttccatct	300
aacccttggt	ctgaaacagg	tgacaggctt	anccaantgg	aaaactgctg	gggtgggtgc	360
tgccatancct	ttgacggttg	ggtaaggaaa	aaacgggtta	aanttagggg	natgggctcc	420
attctgttgg	ccaaggttaa	acctggcttc	ttctattcaa	tttncncat	tggcaaaaaa	480
tgtaaccctg	ccatttcttt	atnaaaaaatn	tataaanttg	gccnc		526

<210> 9980

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9980

aatgaaagaa	agttgataat	ttaggaaaaac	caatgggatg	acatgtttta	ctagaattac	60
aattcaccaa	atcttattga	ggggtggggg	aagaagaaaa	cctgaaggca	ggcaatgcat	120
taaaagcatc	aataaagatt	tctgggtgcta	ataaagttca	ctgacaataa	gaactttact	180
ttcttccacc	taaagaagtt	tccttaagta	ctaactttta	aaagtccatt	ctgtcatgat	240
atgancctgt	tcactgaacc	gtgaggaaca	aggatgaaaa	ataagaatag	aaagagtatg	300
gttcagcctg	agtctaagt	gtctgggtgt	ttatgatgac	tctaccaaat	gtttaattta	360
aagtcttaat	ttcttatttt	taattataat	gttgccaact	gtctgactga	ccttgaanga	420
tcagggattt	ttccacgact	ctaactgaac	acnagatcct	tctcaaacgg	gganaatgaa	480
atgacnccgt	gttctatctg	cncatttnt	ncact			515

<210> 9981

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9981

gagacagant	ctcactctgt	caccaaagnt	ggantgcagt	ggtgtgatct	cagctcgtctg	60
aaaactccca	cctcctgggc	tcagggtgatt	ctcctgcctc	agcctcccaa	agtagctggg	120
gattacaggc	aggtgccacc	atgcctggct	aatttttggt	ttagtanana	tggggtttca	180
ccatgttggc	cagggtggtc	tcaaactcca	gtgatccacc	cacctcagcc	tcccaaagtg	240
ctgagattac	aggcatganc	caccacgcct	ggccccaaac	tgactcttga	ccaaagaatc	300
tgatttggca	aaccaaatct	tagtgcagtg	ttcgtcctc	gtccccctac	ccagaacatg	360
attcagatcc	taacataaac	acaaaaacag	gtcnnggaac	caaaacactg	tggctctgtc	420
tattatacaa	aatattgana	taatgttcac	aantcttct	gttttccanc	aattgtgacn	480
attttgaa						488

<210> 9982

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9982

gactattgca	tatcattttt	agttgangtc	aaaattatta	aagccctatt	tccccaatta	60
aaagcaagga	nttctattag	tatgtcttct	tcattttatat	cccagattaa	tataaaccca	120

gtctagangt	atcacttctt	tccaaactta	acttcatttc	agcagcatac	atggaatatt	180
gacacttttc	aaagttttta	tcccagaccc	attagatcta	caagatacta	naaagaatta	240
gagcaaagt	agtgggcctg	ggttttagtg	atcctcacia	acttctcttg	gattcttctt	300
ttacaaagtt	tctctaccat	acaaacatac	gttttaaaaag	ccaacactat	tgaggtttagg	360
tatgcccttc	aggggtgttg	cctaaaatgg	ttaaatccca	ttcagcttaa	aggaagctaa	420
taatcatggt	gtggaatttc	tccataccan	cagcatggct	aacgtttgtt	nttttaaggt	480
tatgttctga	nactccaggt	taantttgnc	ctgacccttn	aaccttaanc	ccaaatggaa	540
aagaaaa						547

<210> 9983

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9983

aagctaata	gctatcatta	gtgttagtgt	actttatgog	tggcctgaga	caattcttat	60
tcttccagta	tggcccaggg	gaagccaaaa	gattggacat	ccctgattta	tgcagtctcc	120
anaggaaaa	ttcctgactc	acctaaatca	cactgaagaa	tatatcaata	caatgggtctt	180
attaccttaa	aattaacctg	ttaaattttc	tttccatgtt	ctctaacctt	tcctagtcaa	240
actggaaaat	atccaataaa	attagtgtag	agaaaccata	ctcaattcta	taacgaataa	300
tctctcatct	tctcacgaat	ttcctggaag	taatgagtgt	ggactgaaga	agcagacata	360
tagcacacag	actgggtccc	aagttacaag	cacactgacg	ttatctagct	tcaaaggcat	420
actgcctttc	agantctaaa	acagancgat	gtgcatcata	aganatagcc	tatcagattc	480
ctagggccca	aatgttccaa	aggtcnnttt	cctaaaggca	tgtntatatt	naacnaatat	540
aatttgggtt	ctaacttgac	ccccatttaa	tgatcactng	ggaggaant		589

<210> 9984

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9984

cttttttttt	tttttttttt	tntntntttt	ttntntttga	aaaaattaat	ttattttaag	60
ttaaggatct	ctacgtaaat	ttatttttgt	atcaaacaac	tgcaattagt	gatgggggga	120
taaaagcatc	cctaattgtg	gaaggatggt	aatttattta	caaaaactat	acaaaattag	180
attaattata	acaacaactt	atcaaagggt	cctgaaatta	attttgcttt	tgaaaaagta	240
tcaaaagtct	tcaaatccan	aatgatagca	ttttattatt	tctgattcat	ggaattatag	300
cacatcanat	ctttaagcaa	ctacatcana	taaaatccta	nataataaaa	tattcttcat	360
ttcctgacag	cttggaatgt	aaatgaaaac	ttgttccatt	tttattaaan	aaaaaaccta	420
naataatgca	tccnatggta	tcaaatacct	gttaaaatgg	cgtgtctgct	ataattaaac	480
atgggcnatt	aattctacat	aattaaaaat	ggcctaaatt	aatccccctt	taanaaaaaa	540
tttttcccca	tcnttccaat	tncttttttt	cccggtttta	antaagaaan	t	591

<210> 9985

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9985  
gagcattcac caacaatttc tttattttaat aagtgtatct tatatagaca atctttttaaa 60  
aaataaaatg ccttatttgt gttgcataca tttattccga gggagcctcc ctacaagtca 120  
agagtattct cttagccaga aatacttcta ttgctagaaa cattttttaga acagaacaga 180  
tttttcctgt tatcatggct gcatcaaatg ttaccctgca ttttaactaa aatggccaaa 240  
cattttcaaa gtcacatgac actacaagaa tctaaggcag tgtgtctaaa atgccaaacc 300  
cagtacattt agttaaatat ctgggtcaatt caaaaagcaa aataaattga ttcaattgtt 360  
taatcagtta aaccatctgg ccaacataga gtgaatcctc aaaaggggcaa catgtccata 420  
taaaaacgtg tgacangatn gtccaanac accccanggc cacacagaaa aaangccatt 480  
ttatcttcct gaagangtct ggttanaatc cgttttgga aaaattttc 529

<210> 9986  
<211> 479  
<212> DNA  
<213> Homo sapiens

<400> 9986  
ctgagatgga gtgccactct tgttgcccag gctggagtgc aatggcgcca tctcagctca 60  
cttcaacctc tgcctcccgg gttcaagcaa ttctcctgcc tcagcctccc gactagctgg 120  
gattacaggc atgcaccact acgcatggct aattttgtat ttttagtaga nacaggattt 180  
caccatgttg gtcaggctgg tctcgaactc ccaacctcat gtaattcacc cgtctcagcc 240  
tcccaaagtg ctgggattac aggtgtgagc caccgcaccc agccagaatt atcttatgtc 300  
tggttaanaat tgaggacttg ttgaaggctt tgccatattc ttcacactca tagggttcct 360  
cttcagtatg aatgttctta tgtttantaa naattcanga cggtttnnaag ctttgccaca 420  
atcttncat ttgtaggttc tctcncctat gaattacttt gttccataaa ggttgaaga 479

<210> 9987  
<211> 601  
<212> DNA  
<213> Homo sapiens

<400> 9987  
aagagttttt tcctctttta ttaagtccgc tatactaact agaaagagaa tctgtggttt 60  
tcgcctggta naccacaggg ccaatcacca cagcttcttg tnnagaacat ggagagtgcc 120  
nagatcacca tcaggtgccg ctctcttctt gtggctttcc atottccagt cagcctggtc 180  
ttttgccttg aaggggccaa aacaacagcc ctgggctatc atottcatcc caaaagcgga 240  
aaaaataggc angcaaaaac accgaagggt gtctcaaaaa angttcccat caggttcnca 300  
gggcgcccgc tgnctctctt gganaatnca ctccaatcac ctcttgoggc tcttggtct 360  
tctccattac aggtccctt aggcccaaaa cncctgctcc ncaattgcnc ctggtgcttc 420  
tgaccatca ctctttcttc naagccagca ctgggaatgg cttaactttt ggtggaagaa 480  
ttcatncnc ggtcccatc ctgggtgagg gcccgatttt taacaggtnt ttnccttaaa 540  
aaaggttaac ttncatcca atttcccccc ttanccctg ttacctctc cttttgttt 600  
g 601

<210> 9988  
<211> 446  
<212> DNA  
<213> Homo sapiens

09620459.072800

<400> 9988  
ctaaccacac ctttaagttt tattggccat cctcttgata agctgaaaag tcacactagc 60  
ttctgtgtca gcatcttaga tacgtactgt ttctagttaa ttggaatctt ccattttcct 120  
tttttacaaa aatatcctgg caggatctga aactgtttct ccaaagtgtc aaaatatatc 180  
tgtcacacaa aatgaccccc aaagagaatc ctgggaagaa aacaatttct cctcctccat 240  
catccaatta agtatttatt aaacagtcnc tatacttaaa atacctttcc agggtagcac 300  
ctactaagtt aacagactac tggttcaaac accgcaaaga aaagcctgaa actagataga 360  
aacaagaaaa acctcctttt ttttngtgn acccttngt ttgtttttac ntgagaaaaa 420  
gaaaacanaa ctgaggnaaa aaaaat 446

<210> 9989  
<211> 559  
<212> DNA  
<213> Homo sapiens

<400> 9989  
aatgtactgt tcttctagaa aattagcaca agatactatg gaacaaacat gttttgacca 60  
atgctgagct aaggggagctt cacatgaaag cctacaaata tgaggaggaa aaacctagcc 120  
acggcacatt tccaacaatt tcttaataat tctcttttcc ttaaccacag aaataaatca 180  
gagcctttta aagttacctt acagatacca gcttctcaga aattattttg cagttatgtg 240  
agagtatgtg ctttcacaat gtcagcacca acatctttag tattttaaga ggaaaagtca 300  
agtccactga aggaatttaa cagatttttc cagaaacact taagacatct ataattaggt 360  
tttaaaagga gtgacagaat gtcttgaatc acaaattaat ctgaattcag gacaataata 420  
actttaactc ttaccactt ttataagcca ttattcccat taatggntga caatctatat 480  
ttccccattt ccatgcccaa atgaactgnn ctccnttcc tgaagaagn aaaccnnaat 540  
gactccggaa agggtttgn 559

<210> 9990  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 9990  
cagtaaagac ggagtttcac cctattggcc aggctgatct cgaactcccg acctcaggtg 60  
atccacctgc ctcggtctcc caaagtgtg ggattacagg cgtgaaccac cgcacctggc 120  
caaatccttg ttttaaccca tatactccat aaaataaacc tgccaagggtg ggactgtcct 180  
ggccccctgt ctctaggtga gganactgag gcaganaggo taagggacct gctgcaggtc 240  
acgcaggtgc tgagcggcag tgcttcggtt ttagctccat gacccaagct gttgacntct 300  
gccccgggctg aantcaccac ttccccaggg ctccctccgc ccagtcggan ctgttctccg 360  
ctcacctcag aatggacggc aaacgtccan ctgttctggg tottctctc ctgggcctgg 420  
ttacatcaag ggctggttgc angtnacacc cactccatcc anggtttctn caccacnang 480  
gaacccccctg cttgctgccc tggttctccg gccacaaccc tctngtttt ggg 533

<210> 9991  
<211> 495  
<212> DNA  
<213> Homo sapiens

<400> 9991  
cctgccgcat ganattatatt tattaaaaaa ctcaaaggaa gcanagtgtg gagcgggtatc 60  
tgtcctgcgt gacgtctcac atcggagttg gctcanaccc tggctgtgca tccatcaaaa 120  
agtgaaggc ccaggccatg agctggggan gaagcctgac agcttggacc cnancacaga 180  
nggacgtgca ggggtggctca tactcatact ggaaggcaga accatcacga tgcctctttg 240  
ggggttccca gacagaacaa ggctcctggg ctcccctggg atctccgggtc ctgggaaaaa 300  
gcggccgatt cttgcanggc aaccctacc aactcccttg aaactcccan ctaagtttct 360  
tggggcctgg tccccaaaaa acctgttttt gnattggggg acntggcttc cggggttaaa 420  
aaactgggaa tttccctcc tggaattggg aacttggggg ntccggttgg ccttttnngn 480  
acctnggggt tcngg 495

<210> 9992  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 9992  
actaaagaca gggttttctcc atgttgggtca agctgggtctc aaactccga ccttaggtga 60  
tcgccccgcc tcggcctccc aaagtgtctgg gattacaggc atgangcact gcgcctggcc 120  
ccactgacac ctcttgtcaa ggtctccagt gaccactatg ttactgaatg ccaaggccaa 180  
gtcttgggtcc tcaagggatt tgaccacagtc agcatcatgt gtcaccgaag cccctctct 240  
gcctcctcct caggaacact ttctgcagtt ggcttctgaa caccagtctc ctgctttccc 300  
cctacottcc tggaaaagtc tttcnaagtt tctgtgtgtg ctccctcatc tcctccaact 360  
cctaattgctg gaatctcttg ggntcaggct ttggggcccc gotcttctct taanttactt 420  
gcttgggtatc tcaccantc tcataacttn taaacaccat cttttatntn tacaactctc 480  
aaaaaaaaacc taaacttctt ttctgaaatc ccgaatttta ttotccnaa tttaatggn 540  
ctaattggccn cnc 553

<210> 9993  
<211> 399  
<212> DNA  
<213> Homo sapiens

<400> 9993  
aaaagtggct tagaacaac aatttactga gcatttacta tgcacccatc aggtatatctc 60  
cttttataat gtaatcttca aaatgagctg tcaaaactatt ggcccatatt gtgaatgagg 120  
aaaatgaaaa ttaagttata taatcatgag tggcagagct gggaaatgaa ctcaagtctg 180  
tgactctgaa gacatgaaaa agttacacat ttcagatgaa tgcataaaact atctttatgg 240  
gtatgacatg aaaagtaact gtanaatgtt accttaatta catttccnaa tgcattgatgt 300  
ggacagacat tanaaaagtt tggactcctt tggaaaaaca aatccnncag ttaaaaaagt 360  
cctttacttg cnatccccac ccctngctan cccggaacc 399

<210> 9994  
<211> 542  
<212> DNA  
<213> Homo sapiens

09629469-072800



<400> 9994

acgtaa	acac	aaagtctcat	ttat	ttttgt	ctgaagcgca	caggagctca	ctcagc	cacaa	60
taacag	taag	cgaatcatac	aaatattgag	aaaaaatgtt	cctatgaata	catacatgtn			120
tattct	taag	antagcgatc	aggagt	tttaa	caacaaatgt	naagtgg	ttt	tctctaaaga	180
atgctt	tctg	acaggctttt	gggttgg	aaa	tggacaggta	aatcactgtc	acataacagg		240
tnagcta	aga	ataacttctg	ttacccaagt	cat	ttgaacc	ctgtggactg	tgaaagccct		300
cttggaa	ttt	acatttaatt	ccatcattgg	tctgg	ttgac	ttccacattt	cactaaattt		360
ggacaag	atc	cacaaagtaa	ctcctcaact	ctcag	tctt	cacactcagg	tctgtgggaa		420
agaaagg	can	tgaaaccagn	tntnaacaca	tgccccgaaa	acaattttan	gatttctaca			480
gtttcct	ccg	tttccgcct	cccaaattct	acctaaactgg	ctattnttct	naaatgctac			540
cn									542

<210> 9995

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9995

ggctga	attt	tctctccctt	tattctgaaa	actctacccc	ctcacatccc	taatccctgt	60
tctgtcc	ctg	ccacatacac	acacagacgt	ctgacctgca	cctccaagtt	cccaaanata	120
ttgtac	gtan	aaaaa	acaaa	ccttttttta	ttgacattca	cactcaacac	180
ttgccac	caa	ctgtgtgggt	tttctcccac	actggccaat	tctccaatac	caactggata	240
tcataca	aatt	caattctggc	attaatcggc	attaagtgca	natccccanc	aggttaanan	300
ctcagtc	cca	taanatctcc	cccaacttca	gacaccagtc	acaagcagta	ggtnccaaag	360
ttactcac	at	cttctatctg	acgtggctac	aaancaaaaag	ttcccatgat	ttccctctca	420
gattcacc	at	ttgctnnaat	tactcccaaa	atccggaaan	ggnttat	ttta	480
ctattata	aaa	ataatatact	ccnaaacncc	caatggaggc	ccggaaaag		529

<210> 9996

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9996

gttgtt	gttt	tggtaggcta	ttaattactg	cctcaatttc	agagcttg	attggtctat	60
tcaggg	attc	ggctttttcc	tggttttagtc	ttggtaggg	gtatgtgtcc	agnaatttat	120
ccattt	cttc	taaattttct	agtttatttg	catcganttg	tttatagtat	tctctgatgg	180
cagttt	gtat	ttctgtgggg	tcagtgggtga	tatcccc	ttt	attgtgtcta	240
tttgatt	ctt	ctccctcttc	ttccttatta	gtctagctaa	tggtctatct	attcg	300
ttttc	aaaa	aaaaaacagc	tcctggaatt	cattgatttt	tttggangna	ttttcacgt	360
ctctat	cacc	atcaattctn	ccctgatctt	aattattant	tacttg	ttt	420
ctgatc	ttag	ttatccactt	aattagtg	gg	ttaatgcngg	at	480
nataant	ttt	aagaattctg	ttttaacccc	aaatta	aaaaa	aattttttt	536

<210> 9997

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9997

agttttttat	ttctgtgtat	acgaagcagt	ctaagaaaga	atgttatctc	tagagacaaa	60
tattgaggac	cccagaaaaa	ttataaagat	ttttaaaaaat	cottaggaat	aatccgttgt	120
aattcatcct	gagaaaaata	tactctttgc	actttaccct	tcatactcag	catatcatct	180
gtcctatata	gtcttcaatt	atataataga	aaatgttttc	taccagttct	ctccaaaagc	240
tgaattact	tttttcccn	ccctcagtta	gtttttcctc	ttcaactcca	aacaaactgg	300
tgtctataca	taaatcctag	atccaagatt	ccaattcnag	aaagaacatc	caggacccca	360
atttatatat	attctagcta	ccactaattt	ctgtngtgct	acctgtngca	catgatatga	420
nanaantcnc	ttggaaattg	acgttggctt	tttggctctc	ccaactcttt	cccatatatt	480
tcccctgttg	ttggttcctt	tntaaaagca	tngctgcc			519

<210> 9998

<211> 419

<212> DNA

<213> Homo sapiens

<400> 9998

gtatttttag	tanagacggg	atttcaccat	gttggccatg	gtctcgaact	cctgacctcg	60
tgatctgccc	acctcgccct	cccaaagtgc	tgggactata	ggtgtgagcc	accacgcccc	120
gccaatatat	ttttacctac	atcattttac	ccactgtaga	aaatgcatca	gaaagggctc	180
cnaacattat	gatatgggtca	atcttactct	catggantan	taacctaaag	aaanantaaa	240
cttccngctg	acttaagtat	ttgtgtctgt	acctaaagttc	actaatgggt	tatgctttca	300
tgantactag	ttttaatatt	tatctatgca	acttgtgttc	tgtctgaaan	aaaaatacac	360
ttgtttcctg	anggcncact	gcnaggaaac	ataccagtta	tgatagacaa	ancangaat	419

<210> 9999

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9999

gagacggant	cttgcgtgta	ccangctgga	ntgtgggtggc	acaatcttgg	ctcactgcaa	60
cctgcccctc	cttgcctcaa	gcaattccct	gcctcagcct	ccgggggtant	tgggattata	120
agcaccgca	accatgcctg	gctaattttt	gtatttttag	taaanacggg	gtttcaccat	180
gttggccagg	ctggctctga	actcctgttc	ttgtgatcta	ccgcctcag	cctcccaaag	240
tgctgggatt	acaggtgtga	gccactgcac	ccagtcaaaa	atTTTTtagt	gtagattttg	300
caacaacatt	TTTTTTTTta	atgcatgtgc	atcagtaact	tttatgtata	cagttttcaa	360
atatttcatt	gtttctcanc	atacttcaac	tcattaaatc	tttcccantc	ttccctggg	420
catgcataca	tgtcaacatc	agttcaattt	cctgtccang	gtacacaatn	aacctgtnt	480
ttgggaacct	ttgaaccggt	cntaacttac	aangggcaac	ncctgttaaa	aggtganaca	540
aaaaa						545

<210> 10000

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10000

gttttgcac	ctccatccat	gttccgtcca	cagacatott	gttctttttt	atggctgcat	60
agtatttcat	ggtgtataag	tgccacattt	tctttatoca	atctgtcatt	gataggcatt	120
taggttaatt	ccatgtcttt	gcaattgtga	atagtgttgc	aatgaacatt	cacatgcatg	180
tgtctttatg	gtanaaacac	cgtaagggtc	atctgttctc	ctctgggtat	atatccagta	240
atagaattgt	tgantcaact	ggtagttctg	cttttagctc	tttgagggaat	caccatactg	300
cttttcacaa	tagttggaca	aatgtctact	cctactaaca	gtgtataagt	gttccctttt	360
ctccacaacc	tcaccancat	ctgttgtttt	ttgacttttt	aataatggnc	attcanactg	420
gtatgaaatg	gtatctcatt	gtggttttga	attgcatttc	tottatgaaa	aatganattg	480
ancctttttc	caatgctgtt	tgaacacata	tatttcttgt	tttgaaaaat	tcgttcagtc	540
cnn						543

<210> 10001

<211> 396

<212> DNA

<213> Homo sapiens

<400> 10001

ctanagtttt	tttaatgggtg	ctgacattct	cttcaatatg	tccatgotta	gcttgggttt	60
ctggggggaca	gatgagtagc	tagtactacc	catctaaaaa	acaatgttca	ttagttagaa	120
taatgggtgtg	atatgatagt	cttcaanatg	atgccctcaa	tttctttcct	ccctgcatgc	180
acatgctgct	gtttacattg	acaggtagag	tcgaatctcc	catttcttga	atctgtgctg	240
gtcacaatga	cttgcttttc	cnataggatg	gagcagaaat	cgtactctag	gacctccaag	300
gctaggctcct	aagaancctt	gtagtatttg	cngtgtgtgc	ttggganana	ctaccacctt	360
gtgancactc	cangtnacat	tgaaaagtcc	ganaag			396

<210> 10002

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10002

ggtgtttcgg	tcttgttgcc	caggctggag	tgcaatggca	cgatctcggc	tcaccgtaac	60
ctccgcctcc	tgggttcaag	caattctccc	tgccctcagc	tcccaagtag	ctgggattac	120
aggcacctac	caccatgccc	ggctaatttt	tgtatttttt	agtaaaaaca	gggttttgtc	180
atgttgggtc	ggttggcctc	taactcctgg	cctcagggtg	tacgcctatc	tcgacctccc	240
aaagcaactg	gattacaggc	atgagccacc	acatccggcc	agcattttta	cagataatag	300
ancacattct	ccattgaact	cttcanaaaa	atgttcttga	ctctgcaaac	caatgactga	360
aatgccatgc	tgctcctctt	ttaattttga	aagatcttct	tcattcattat	ctccttcccc	420
aagtttttna	tgtgtttaat	ggaaattggc	tttgttggaa	ttgccccccc	ccgaagccnc	480
cnccccaaaa	aataagttcc	gccccaaaaa	ctttcaaaaa	antttttttc	cncant	536

<210> 10003

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10003

aagttgacaa	ttaagcagac	tttatatcag	catctaactt	ttttaaaaaa	aaggcaagtt	60
acaatatagg	aatttttagag	aattgatgca	tttgagaaaa	gatgaagcag	atagatatat	120
aattgttcac	agtggtaaat	tataggtggt	tttctcacat	tttatgtcag	tttcttgat	180
atcaaaaaat	acattcatac	tatgagacac	aggaatcttt	acatccaaaa	taatttgata	240
cagatgcctt	aacattgctg	aatgagacaa	ctttggaaaag	attcttggtt	tgtgattcct	300
ttttaccctc	taagcacagt	gctttgttaa	cactgtgtgt	gtagtaaag	tgtgtgctgc	360
ttaaggtaaa	gaattctagt	aaactaaatg	cccaagggtga	ctgcgtgatt	ccatgccaga	420
caggaaaaag	cagtcatgct	ttttgncct	anctgaacgt	ttgtttcccc	ncaaactatg	480
ttttcntccn	cagaaatatg	aaatatgcta	natccagttc	na		522

<210> 10004

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10004

gagatggagt	ctagctctgt	cgcccaggct	ggantgcagt	ggcgccatct	tggctcactg	60
caagctccgc	ctcccgggtt	catgccattc	tcctgcctca	gcctcccgag	tagctgggac	120
tacaggcgcc	cgccaccacg	cccagcta	tttttgtatt	tttagtaaan	acgggggttc	180
actgtgttag	ccaggatggt	ctcgatctcc	tgacctgtg	atcctccgc	cttggcctcc	240
caaagtactg	ggaatacagg	catganccac	cgcgcgcggc	caagtatata	catattttta	300
ttcataatgt	ggacagggtg	gtcnacagag	aaaacagact	tatacatgaa	agatgaatta	360
atgaatgaga	ttaaaattgt	tttataattt	ttacatttaa	atccttgaaa	attaaaaagt	420
nagaaatatn	atagcttaaa	tatcntatcn	ttaaaaatta	acttgcctta	tttaaatata	480
atganaaatn	tttccgtatt	ttttgtttta				510

<210> 10005

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10005

acaaagtctt	aatacgaact	gtttaattgt	tataacaaga	tttgagangc	aggggtangt	60
aagtaagtca	ccaactggcg	ataagtcacc	aactgtta	atgtgtctgc	aagtttcttg	120
tttttcacaa	tcactagatt	tacatacaat	tatagggtta	ggttctccgt	gtacacatac	180
agtgaagac	attttccaaa	taccttttga	tgtagaatgg	aacctgagac	aaaaaaatca	240
cttaagaaat	caaattctcat	ataatggaaa	tactttaacc	acagcattca	cacatttgac	300
tgtggattcc	aaatgcttat	ctaaacagag	gcaacgcaat	taaaactgcct	tcactcaaaa	360
tggtgtcaga	aggcaactac	cctattttact	anccactgat	aagttatgac	aacactat	420
cataacctgt	cctatatctc	ttttaacccc	ccagccatta	ggattangac	tccccacccc	480
taagggntta	tccccaatgc	cttantgccc	caaccnttaa	aaatccaaat	tgcattgccn	540
ttgaaaaact						550

<210> 10006

<211> 231

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 10006

agagttgaaa	tatattcttt	attttcagga	tggaaatagg	ataggggaagg	aggaaagata	60
cctttgttag	ttgccactgc	agtaccatcg	aaagaacatc	ctgggggaaac	aaagaggtat	120
gtgtgctaca	ggaggggttg	gtgactagag	acttaggtcc	cggaggcctg	gacaccaggg	180
tcaaaaaggt	gtacagggcc	cagactcctg	gttctgaggg	aggannnnnn	n	231

<210> 10007

<211> 487

<212> DNA

<213> Homo sapiens

<400> 10007

gtttgtatat	ttacttgitt	attgcccatg	cctcccccca	gcaagaatgt	aacctccaag	60
aggacaagtg	ttgtgtctcg	cttactcaca	tctgtggcct	cagtgccttg	cattgccacc	120
cccacgcacc	ccaccgcccc	cagagtgcgc	caaanagagt	gcaaaataaa	tatttgtaa	180
atgaatgatg	aagggaatgg	tggangaggc	tgtctgggcc	ctttatggaa	ttacttcagc	240
tcagttatgt	ctatttcttt	tttttaatcc	tcctctctct	gcccgtcagc	ttccattcat	300
tccccacctc	ccatctccag	ggaaggggtg	aaaggatgga	gacagactga	cgggttgcct	360
ggctgangct	tgttttaggg	tgtggagcaa	ccccanccc	aactgaactg	tctgggcttc	420
cgggaaggaa	gaaaaaccnn	tccgtcccaa	aaccncaaaa	attanttggt	gggttcnaaa	480
aaggcct						487

<210> 10008

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10008

aattttcttt	acaatattta	tttgaaaatt	ccaacagtac	agattgtata	taaagactct	60
aattgagatt	cttgtttcat	tgacaaattg	ttaaaattct	taactgccag	tggtggtagc	120
tcacacttgt	aattccagca	ctttgggacg	ctgaggctgg	cggattgctt	gaatcccga	180
gttcaaaacc	agactggaca	acatggtaaa	accccatctc	tcattgtaaa	ccaattccaa	240
tttcatcacc	atttcagaaa	gatgacgatt	ttctaatttg	agtactcca	gctgatccaa	300
aatctcctta	tgctctactg	ctttgtcttc	tgcccttttg	atctctgctc	tgaagtcctt	360
tccgtgtctg	angaaagaac	ctttggtgga	agcaatagtg	atatctcgct	gatgttactc	420
ctgagttaga	tgggaaattc	catcttcatt	ccttctantg	canaactgtt	actttgttct	480
cccgttaa	atcttcttcc	acttcttaac	cctgccttgt	ntccctggta	ttctctcccc	540
ccc						543

<210> 10009

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10009

gcgttttcat	actctttatt	gccaacggtt	taaaatggtc	aacataaaaa	aaaagacatt	60
ttgataataa	atactgctct	ttgggctgta	ataaataaaa	agttttattaa	caaggaatgc	120
acttttccag	ccacaagtat	cttcaaaaat	taatgaaaaa	aaattatata	tggccatagt	180

tcacagttac	gcagccaaaa	gctgctccaa	ttacagcctt	taaacaacat	gggancttcc	240
tcccttctcc	ctcccccttc	ggaagtatat	tcacagttcc	aaagtcctct	ggctgaaatg	300
ctctcaccag	aaaaaaattt	agaaatcant	gncctttct	gcaaaattgt	ctgaaaaaac	360
cttttaaaac	aggtttctca	aggaaaaact	gcattctggg	ccctcttgga	ttgtccaaan	420
tcaaaaatgt	ntgccttaac	ctgttctggg	tccaccantc	caacaggccc	angggaaatg	480
ttttcgtacc	acacattttt	ctcttctcca	aatactctna	ttatcctttg	ggtcccggt	538

<210> 10010

<211> 483

<212> DNA

<213> Homo sapiens

<400> 10010

gtttctctaa	aatttagaat	cttaaaactaa	atccttttatt	tcaaaaacaa	acataaaata	60
atttcccagg	canaaaaaaaa	gnttganang	gaaacgttct	tgtagcagt	cccttcctgc	120
ataaatgggg	ttggagaaaa	aagaaaaaag	gaatggccaa	aggtatggaa	agctttcaca	180
atgcatgccg	agtgtgaant	gaacccccag	canatggggg	ttatcatctt	tacttagtca	240
cacaacatca	angactgggt	agttccaggg	gaanggtcc	atttcattac	ctgggtcagt	300
tctcttcccc	cgcattgctc	acaatgcagt	anaacaaaca	acacattcat	ttacaatana	360
atgtttaaat	aacacctgtc	caataactgc	ccttacttct	ttgtgctgtc	cggaaaagaa	420
aaaacnnaaa	gccattaaac	cccnaccctt	tggccanccc	acccgtnnct	attctcctgg	480
ggn						483

<210> 10011

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10011

atagagagcc	gaaatatttt	attttgatta	aatacataat	agttatggtc	ttggtattgc	60
aaataacatg	tcttggaat	gtttagatgt	ngagggagaa	ataaacaag	tcacaaggtc	120
gaggctttta	cataccactc	taagaaataa	gtacacatag	ccaaaaacaa	catactatta	180
cagtattata	cagtattctg	acacagctag	gtttcagaaa	tcattatact	tgacaaaaag	240
gataatttac	attcttttta	aaatcccatg	taacaattac	aaaaatctct	ttagtaacaa	300
agaaaatctc	tagaaattct	caaaagtagt	cttttaatgc	atggcatttt	ctgaacacaa	360
taaaacacta	gttgatagaa	aaaagacaga	aaaaggaatn	taacaagcct	cctaatttga	420
aataagcact	tttctacatt	actccgattn	aaganaaaac	cccaacntac	caaattttta	480
gaanaatatt	tcttntttta	ctttccaaaa	aacttntttt	ccaattncca	ccattatatt	540
tgggtggatac	ttaattnctt	taccncccn				569

<210> 10012

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10012

atgatagcac	aaagtagttt	ttaataaaaat	ctgctttttta	cttatatttta	aataaattgc	60
ccagttactg	aatcagaagc	atttctttaca	aagcaaacaa	aataagcatc	ccttctatgt	120

taataacatg	ttaatagtat	gttggcaagt	tgatttanaa	caacttgcca	acaatacaaa	180
cagaaaaagg	agtgggtcaa	agaaatctag	tttggcttta	ttttcaatag	atcatactgt	240
ctgttgaaaa	aggaataaat	aattatggag	cctatctaata	aatataactcn	atagtttgaa	300
attattgagt	gcttcctata	taatangctc	caggctaagt	atttcatttg	cattctataa	360
ttatgtttat	attaacatga	aggaaacaga	anttaagtag	taagttctta	gcatgcagat	420
aacttatatc	tatttatgac	aaactttgtc	cctacacatg	tggctganta	atttcatatc	480
tctgggtcnt	aagaatcttt	gaacataatg	gacttaattc	cntaaccttt	aactggcncc	540
gntatatctg	ttcaattcna	aatg				565

<210> 10013

<211> 589

<212> DNA

<213> Homo sapiens

<400> 10013

gaaaaacata	natttttttt	ttcctccaga	ntagtagcta	attttgtttt	ttttttgaca	60
gtctcactct	gttgcccana	caggantgca	gtgggtgcaat	cttggccccc	tgcaacctcc	120
acctcctggg	ttcaggtgat	tctcctccat	cagcctccca	agtatctggg	attacaggtg	180
ccgccatca	ctcctggcta	atttttctat	tttagtaaaa	atgggttttt	gtcatgttgg	240
ccacgctggg	ttcaaaccct	tgacctcang	tgattctctg	gcctcagcct	cccaaagtcc	300
aggggattac	aggtgtgagc	caccacacct	ggcttctttt	aactctgcaa	aggggcnng	360
tctggcatac	agtttgaaat	ttgctgccac	aatcccat	tgcnaacccc	aaattcctng	420
tggaaaaaag	gggggtnttc	catnggccca	ctaaccatt	gggnaatta	aactcctttg	480
ctcccaaac	tgtttgccan	aaaaccttaa	aaggaaggcc	cncctattnt	ggaaacaaat	540
tntttttccc	ctttttanta	aaaaanataa	ccctttttta	aaaaatcttn		589

<210> 10014

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10014

ctgtgtttga	ttggttttat	tttatactca	gctttat	atatcaciaa	actgtaattc	60
aggtataagg	ttatttcaca	ctttaagggc	attctgtctc	tttctccaga	cctgaaanag	120
atgtttcaag	gatcattcac	ctggctaata	cacaatatat	caaaatgctg	acagacctac	180
aaaatcatta	tgccaaacaa	actcctccaa	gtcgtacatt	gcacagtctc	caactgttaa	240
acaaattagc	caatttatct	ctgaaccatt	gtttgtgtgt	ttccttagct	ttcatatata	300
cactctggca	ctttgtcatt	gctgggagaa	tgctgattag	tttgaaatgg	aanaaaccaa	360
cgccattctt	gcttganatg	ggggcagttt	tctctcaatg	ttgcaaaaata	tgcccaaatc	420
atttaagana	cagaaatctc	tcttggtaat	ggtggattat	nnaatganaat	gaaaaaaaac	480
ccnacttnt	ggatgtttta	ataatctatt	tganacctaa	aaaaatgggtg	ccaanccaca	540
t						541

<210> 10015

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10015

gcattttttt	tattgccacc	agtgtagtc	caacctccat	cctctctcac	ctggatcaca	60
gtaagcctct	gcccctgcc	atccattctc	cacaaagcag	agtgatctct	aggaaagcaa	120
ctcaggttgt	gtcccactct	taggtaaaa	cctccaacag	tttctcatgc	ctcagaatga	180
aatctaattct	ccttatccctg	gactctaaca	accccctoga	tttagccct	acctgcccta	240
tctcttgac	tctttccttg	ctcactcaat	ttcagccact	ggtgtccttc	catgctttca	300
ttcattcatc	ctcaggcctt	tgagcatgtt	attccttctg	ctttacacag	cctctctctg	360
ntctttgcct	ggttatctcc	tacttgtctg	gttctctgtg	tgtaactttt	cccacacagg	420
tcttctctga	cttcctaata	ctaaattagg	atcataagtc	tcagtttcct	catttctgaa	480
ataagggtatt	ctgcggatta	aatgagaacn	ttcatgtnaa	ggttgttggc	caagtactng	540
cccacagtgn	ggaccttan					559

<210> 10016

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10016

agagtaaaaa	aggagtttat	atatttataa	atgccaaata	aataccagag	gccacccaac	60
gccccctccc	agacagggct	gtctccccc	gccctaggct	tctaggggtg	gagacatctt	120
ggccccaaagc	tatagcccaa	gagcagctgt	cagtctgtgc	taccagggaa	ctgagtgagg	180
atgatctgtc	cagccaagtt	tactccccc	tgagttaggg	gcccccatag	ccacaggcct	240
gggtccctgt	ataggaccct	aagggtgaaa	gactcagggg	gagaagggtg	ccatctcgag	300
tgagaccgc	tgccacagct	ccttggtctg	tttgctgcgc	ttgaggttct	gtaggatgtc	360
gttgaactgc	atcatgcccc	tgggcgtcag	gcagaaggcg	ctgcgggcac	tccggatcgc	420
attcaciaaag	tcgtcgtagt	cgcangagt	cangtgaatc	aagctgtggt	ggatgtactg	480
catgtatgcc	tgctggcaac	gcttgaccan	ttggtggaag	gnccgggcac	ncagggtgggt	540
gtgggcctna	accggactaa	c				561

<210> 10017

<211> 524

<212> DNA

<213> Homo sapiens

<400> 10017

ggcaggtttc	cttttattgg	ttctagacag	tttgtggaag	gaagagatga	ggccatntan	60
aggccggcag	gtcgcgccag	tgcccaaac	actgccacco	tgaagtagtg	ttggaagctg	120
ctccagggat	gttgacagccc	taagcacagt	gacagggtgg	ggcaggagca	gcaggggtcc	180
cagagggtgt	ganaggctgg	tgagggcaca	gagaaggggac	ctcctggggc	tgaggccct	240
ggtggcccta	tgtgttgag	cacgctggcg	cttgtctgtc	cggcctccag	tcacgccaa	300
gcctcctgcc	ctgaccacca	gcaatgctgg	cctcaatgtg	gctgaagotg	gacgtgtgac	360
tttgaccccg	tgagggggtc	ctgggaagg	ctcanttgct	gcogttgott	gtcgtcactg	420
tccagggtatg	caccagttg	gctcanggan	ggacccccca	ngcgttang	gtttanggtc	480
ggnctccttc	ctggtctggg	gggcttctgg	ggtngggggc	ccct		524

<210> 10018

<211> 553

<212> DNA



<213> Homo sapiens

<400> 10018

aatgctttta	aaactgtatt	tgtacaacag	gataaaaaca	gtttttcttt	cggatgccag	60
ttgcaagttt	ccatgtaacg	tatcttaatc	tacattccca	aagtaattgt	gtctcaggta	120
acctttgccc	tgcccaaaag	atgaacaaaa	ataaccagaa	aggtaaaaat	ctgtcttttg	180
agttggggga	atcactggcc	acttgcaaac	tgccacttca	ctgccaactt	ttatccaaga	240
aaaccggttt	ctaaaaacct	gcaaaaaggga	catttaagag	gaagctgttc	cctgaacgaa	300
gactgagcag	gacaagccaa	aagcgggtgcc	aggggacaat	gccagatggg	gaaagtagga	360
gccgggttgt	gagacggaaa	cacacacgcc	aagaacagcc	agggagcaaa	gcgaggagtt	420
ctggcttctc	gtaactcatg	aaggatgaat	gtcatcgggt	taaatttaga	cgataaagct	480
gatgatgacg	gccccggggg	cognittttg	aaccncctta	nttccagtnc	ncnagaaaag	540
aaaatnttgg	agg					553

<210> 10019

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10019

gagatggagt	ctcaccctgt	tgcccagggt	ggagtgcagt	ggtgcgatct	cagctcattg	60
caacctccgc	ctcctgggtt	caagagattc	tcctgactca	gtctcccaaa	tagctgggat	120
tacaggcacc	caccaccatg	cccagccaac	ttttcatatt	tttagtagag	atggggtttc	180
accgtgttgg	ccaggctggg	ctcgaaactcc	tgacctcaac	tgatctgccc	gcctcagcct	240
cccaaagtgc	tgggattaca	ggcatgagcc	accgcaccca	gccttcaagt	atTTTTTctc	300
ccctcccccct	acaatcgccc	cctcttcagg	gactctactt	acatgtatat	tgggctgttg	360
gaagctatct	tgcagctcac	tgactgatgt	tcttttaaaa	agaattcttt	ttttttctct	420
gngtttctact	caggatagtt	tctattgaga	cttctctgag	ttcactatta	ctttataaca	480
tttaatctac	ccttgatctc	atcctgggna	tcgcgatntt	aaaacactgg	gggtttctac	540
actgggaagt	ttgaatttg					559

<210> 10020

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10020

aaacaagtga	acagttttat	taagaattaa	atgagggtat	ggaatgtgat	acagtacaag	60
taagacactg	aagatgggta	taatagtact	acttgcacaa	aaagttaa	ttcacttcaa	120
aaaaaaaaat	cacaagacaa	aagaaaaagc	aattccatca	ttataaagta	agctattttca	180
tgcaacgtac	taatactccc	cctcccccca	aaacccccaa	ttcccaacaa	acaaaaagct	240
atctgaaaat	gctgccatgc	taacatatga	accacgggtat	attcattcat	ggaaaaacac	300
actcattaag	caatggatta	gataaaaata	cacagtttgc	agtattgtaa	actcatagac	360
cacaatgatt	tcacatgaaa	agcaattcca	gattcactca	tagggtgagt	aatatgggct	420
acatagttga	gagataatgt	aaatataaac	cccatattat	ctctcattat	cttctaatta	480
tnaaacctgg	aagcttagat	aatctggaaa	attcatataa	aattngnata	cttcacttgg	540
gntccaagaa	atgactttcg	gt				562

096246.07300

<210> 10021  
<211> 514  
<212> DNA  
<213> Homo sapiens

<400> 10021  
ganacggaat tgngctgttg ttactccggc tggagtgcag nggcgtgato ttggctcacc 60  
acaacctccg cctcccggt tcaagcgatt ctccctgcctc agcctccga gtagctggga 120  
ttacaggcgt ccaccaccac gcctggcgtaa ttttgtattt ttaatanana tggggtttca 180  
ccatgtttggt caggatggtc tcgatctcct gacctcgtga tctacctgcc tcagcctccc 240  
aaagngctgg gatgacaggg gtgagccacc acaccggac tgctggattt tttcttatat 300  
cagcttaaac aaactaagat gattattccc acagaggaat cgtttttatc ctttaaggcgg 360  
ggttaggagg aattcacaag agagacctgc tgatggacag acagtacatt gcgtgtcgac 420  
aggagtccac accaatgcc cctgcaaato aanngcctga cattcccatg ggggcncaan 480  
aaaaaggntn aatagatcgg tttcctttnt atgc 514

<210> 10022  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10022  
agtagagacg gggtttcacc atgttagcca ggatgggtctc gatctcctga cctcatgato 60  
tgcctacctc cgcctcccaa agtgctggga ttacaggcgt gagccaccgt gccagccag 120  
caaaacaatt ttctacacaa atgtccttat gaaatgccat gaaccccaag tacacttggg 180  
cagaatgaac ctattacttc attttcccca cagccaatca cccttcccca tgccttagac 240  
catcccactt ccctcagcca taaatatccc taaggcttat cttgaggagg tggatttaat 300  
ataagttgcc aggaccagca gacctgaaa ctccccacc ctgcccttc tatattctgc 360  
ttaaattttg gtggatgaac ctcatctcc cttaattgc agaacagaaa tgtgtgacac 420  
tccttgagtg tcaatgaatg cctgatccct gcctaactca ggaaattctt ggcattcttn 480  
caagtgctc ccctaaaaat ggngctccgg ggaatgatct tacagaactt aaggctttac 540  
catttatggg atcna 556

<210> 10023  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 10023  
gtagcctcgc tctgtcacca ggctggagtg ctgtggcaag atctcagctc actgcaacct 60  
ccgcctcctg ggttcaagca attctcctgc ctacgcctcc caagtagctg ggactacagg 120  
cacgtaccac catgcccagg taatttttgt attttttagta cagacgggtt tcaccacgtt 180  
ggccaggatg gtcttgatct cttgaccttg tgatctgcgg gtctcgccct cccaaagtgc 240  
tgggattaca ggctgagcc accgcacctg gcctgggcct gccctattaa acagacttat 300  
taccataatc aggaccatgt ggttttagca cagagaacaa ctaacggata cctatgcaca 360  
cagggaaact atgatgacag acagatactg cagagtaaata tattatttaa taaactttgc 420  
tgggataatg ggtgtccata aggaaagaac tgaaaacgga ccactgggtt actcaatacc 480  
caaactcaat tagaaaangg gattaaaaag nttnaaaaga acaanttttt tttttttttt 540

09629469.072300

ttccttgana naggg

555

<210> 10024

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10024

ctttctttct	tctttttttt	ttttttttta	nacggagtct	cattctgttg	ctccggcttg	60
agtgcagtgg	tgtgatcttg	gctcactgca	acctccgccc	cccggttca	agcgattctc	120
ctacttcagc	ctccccagct	gagattacaa	gtgcacacca	ccacacctg	ctaatttttg	180
tatttttagt	agagatggag	ttttgccatg	ttggccaggc	tggctctggaa	ctcctaacct	240
caagtgatct	gcccgcctcc	gcctcccaaa	gtgctgggat	tacaggcatg	agccactgtg	300
cctggccccc	aaatatactt	ttcttatgct	ctattgatgt	cagaggttct	aagatatcac	360
caaatcacct	atttgaatat	ttaagctcta	acttgatcat	cctctgtccc	tttagttaag	420
agttggggct	gaaggcagcc	tgncctttct	ttcccactgg	gggatataag	ncattttcaa	480
ccttttcctg	nttcaatact	tggctactgg	ggngacattc	ttttaaatt	tcatggcatc	540
tnnttnaaaa	agncccta					558

<210> 10025

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10025

aatacagacg	aggtctccct	ctgttgccca	ggotgggtctc	caactcctgc	ctccatcctc	60
tggcctcagc	ctcccaaaga	gttgggatta	cacaaaacaa	aacaaagcaa	aacaaaacca	120
ggccacacag	tgttgggtta	caggcttgag	ccactgcgcc	tggccatgaa	tcctttatca	180
caccccaggg	gcctcaggta	ccaatcacag	ggcccatgtg	ctccatcttg	ggaaagtaac	240
attcatccat	agccagtaaa	aagcaggggt	ttggctgcgt	gcctcaggcc	catcacaggg	300
gatgctgagg	ggggcccagc	gctctgccc	cactgcctgc	cattgaacct	ccactctcag	360
aagctacgat	gtgagagagg	tgtgtttaga	attgaggaaa	gaagccacco	ttgtcaaaga	420
tccctccaca	ggcccaagag	aaagtgaaaa	gaccattttt	acgcccgtt	tgctgacttt	480
tttgatcttt	tataaaacaa	gccacacctt	tccttaagna	gggaagtnc	aagggaattt	540
caaacaagnt	tggtngggc					559

<210> 10026

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10026

ccgaagagtg	gtgaggaggg	caggacaatt	tctagaggca	ggggaatctg	aaagtttcat	60
gccaggggaa	tggagctcag	tttatcttcg	aagcccttct	cccatccca	ggggggcccc	120
ttaccacagc	ctgcattatt	gaacatgccg	ggaagcacca	gcattgatgt	gttggggccag	180
tacttgcggt	acagaggcat	ctcatactct	ttgaccacca	ggaggatgaag	gtggctgatg	240
ccctccatgg	cgtggaaaag	gtttaggagt	ccgtgctcat	gtcgaccact	ggaaggagtg	300
aaaatagggc	tcttgactgc	attcaaattc	ttgtctgaaa	ccaggggcag	ccgcatgctc	360

tccaggtgct	tgccctgctt	gotgaagaca	aaatgactct	ctttggattt	gggaatgatg	420
aaatatagct	gaacctcttc	tcccagcata	gaagaagaga	atgtgaangc	atgaanggtg	480
gagtcagaca	tntggaagca	naagtgaat	ccatgtactg	gcggacttgt	tacaannggt	540
gaaanggggt						550

<210> 10027

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10027

gagacggatt	ctcgctctgt	tgccaggctg	gagtgcagtg	gcatgatctt	ggcggctcac	60
tgcaacctct	gcctcctggg	ctcaagtgat	tctcctgcct	cagcctcctg	agtagctggg	120
actacaggtg	cacgccacca	caccagcta	atttttgtat	ttgtagtaaa	gacggggttt	180
caccgtgttg	gccagcatgg	ttttgatctc	ttgacctcgt	gatctacccg	ccttgacctc	240
ccaaagtgac	ggaattacag	gcgtgagcca	ccgcgcctgg	ccganagtgt	gattttaaaa	300
tacaaaccaa	ccagtcctggg	gtctgtactg	ccaaccacct	gccttattgg	gctcttgcac	360
tccaagccac	tatctttctg	ccctaatac	ccaaggcca	ggtgtcaggc	cgntaggcag	420
cctntatgcc	ccagagccca	caaaatgctt	catactcgn	catctgaanc	tgnttggtg	480
gccttgccct	tttttcccat	ccaanoccta	ttaaaagctt	tngnccaaag	tccctcatga	540
atatt						545

<210> 10028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10028

cttttttttt	tttttttttt	ttacaggaaa	gccatttact	cctgggtgaat	tcctcagggt	60
cccaggttca	acactttccg	tgatgtcaga	gtactcagtc	agggatgatg	gggacagggt	120
gtcagaacag	tcttgatggg	cttgccagca	acagcttttt	cttattttcc	ataatttggt	180
cttagtcgtt	ctccagttgt	cttcattgta	ataaagtggc	ccatggcaat	catgattctg	240
taattgttat	agtgcctttg	taagttgaca	gtttccaaat	ccccctactc	atacgacccc	300
tgtgaagggg	ggtgtgaagg	ggttggtggg	cttgtgcata	tgagggaatg	tgaacgattt	360
cattatgacc	gaattatgct	ttactcaata	agcactcaaa	cactaccatc	tcactttag	420
tagaagtgct	agggatgcaa	ccaagaaaact	ggttgaataa	tgggaangtt	aatgcctga	480
gtattttaat	ngaaaaaaat	nttaaaaacc	aaccctaaact	cgttgggaaa	gangcttttg	540
ctanggcctc	cttttttaca	ngggttggcc				570

<210> 10029

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10029

ctttgggaga	cagagtttgc	ttcttgttgc	ccaggttggg	gtgcagtggt	gcggtctcgg	60
ctcactgcaa	cctccacctc	ctgggttcaa	gcaattctcc	tgccctcagtc	tccttagtag	120
ctgggattac	aggtgcccac	caccacaccc	aggtgatttt	tgtattttta	gtagagatgg	180



cattgtacaa	tgctaattgtt	actttatctt	gaaaacaatc	ttgagaagta	ggaattattg	60
tcctctttca	caagacagga	aaaatgaggc	caagggttag	tgacttgctg	agggtcacac	120
agtgacagag	tggtatcctg	gtccctgtcc	ctgacttctt	ccctagggct	cctcctcctg	180
ggcatctcac	tcagaggaag	cagggccatc	agtggtagtg	gtgccagctc	ttggggagct	240
attttcccc	aggtgggtta	agttctctcc	tagtatacaa	caggatgggtg	gctacaccgt	300
catgataggg	agaacagcta	tcttaggagg	ctgcttgcta	gacagagatg	ggtgtgtgtg	360
cgtgtctgtc	tgtctgtctg	tctgtctgtc	ctgggtccag	agccgtcaat	tcttcagcct	420
cagtcttccc	tctattgccc	tctcctggac	atagggaaga	agtgcctctc	cctgctgccc	480
ccaggattac	tccctggctt	tttcaacttt	cccacattca	tcctgaantg	gccctttggc	540
tgtcaccaag	gnccggctgg	gcn				563

<210> 10033

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10033

ggtggaagaa	acagatacat	cagactagtc	cagcgtctca	gtttccacac	ttcataacaa	60
tggggcaccg	tgacactagt	gtctaactta	ccacgtctgc	tttgggccac	aaattccata	120
ctgtaacagc	caattaccca	aaacactaaa	tagggaatgg	ctcaaaaaag	gctgtttctg	180
aaaaagcagc	agcattttga	tgagcaaaaa	tagtaagaga	ggatttttta	aacttagaaa	240
aacgaggaaa	gttgaaccca	gctaagaata	tttctgagac	acccccacc	ccttgtgatt	300
tttctccgcg	taggattttc	ccttgactcg	cctctttaga	gactgctaaa	cacacacaca	360
catacacaca	ctcatttttt	aatcccacca	actctcctcg	cccccaaggc	agaggcttgg	420
cgttgacagc	ttcgaacaat	gacatcacc	taggttttgc	tccttggcag	ggtcaccaat	480
actgnttgca	gtcaatttcc	tgtaaaggct	ctttaangna	ngaaactaat	cctgngccct	540
gaggccttcc	ctgngntgaa	c				561

<210> 10034

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10034

cgaccaatat	ggtttatttc	tgccccagcc	aagcttcttt	ggaccctggc	tgggggaaaag	60
gcaccccagg	caccggcaag	ttccagtcac	tgcanatcct	ccaggtctag	gtgtgactgg	120
tagtagcctg	ggcactgttg	ctggacgttg	tattctcctt	ccttcttccg	ccggcgggtg	180
gtcaccagga	caccgcanat	caggcatgtg	atgagtccca	ggagtccctg	caagccgatg	240
aagatgacag	ccanaaggg	aaggtcanaa	ttcccagtta	agggctcatt	tctgttggga	300
gaatacccat	ccacaaggac	actgctcctg	tccagggtga	agttctgcag	ctgggtacca	360
ttccgggtca	tccgcagaaa	ttcctcatag	atggcaactc	tgnctactct	ccgagccagt	420
ggcgaaaagt	tcacagggag	tccaccccg	tgtgtgtgct	gttggggaca	gacctgaatg	480
ttgaacttga	cagtcngaaa	aatactttgg	agctgctgtt	tnggaaaaaa	ttgtttaacc	540
catnctcaan	tttctt					556

<210> 10035

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10035

aagtaagaag	acttgtcagc	tgccctaggtg	ctctagaggc	aatgcaagtg	cttccacaga	60
gaagaggcag	aagaaacaga	ggcgggaaaa	ggtgcagggt	gcagtctagg	agactgctct	120
tatcatgctt	caaggggccc	actccactgc	agtgggttct	caggacaatt	tttttttttc	180
cttttttcta	tagctaaatc	tgccaggatag	atcttcagta	tcttaaaatg	gttactttta	240
attttttagaa	gatttaggct	taactgttaag	tcccttaaac	tcttaaaagtc	tatgtcttta	300
gctacaaaat	gaagaattaa	agtaggctat	ctctaaggnc	tcttgcactc	tctaattcaa	360
tgagaaaact	ctcattaatt	tcatcacgta	tgatgagtag	aaaataatca	atgaacataa	420
atgcatactt	atgcaagggc	atcttatttt	aaatttgata	tggataaata	agactactta	480
tggatttact	ggnatcaagg	ngctggaagg	attgagaaan	acaagctncc	ctgnanance	540
cccg						544

<210> 10036

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10036

cttgagacgg	agccttacct	tggtgcccag	gctggagtg	aatggcgcca	tctcggctca	60
ctgcaacctc	cgctctcccg	gttcaagcaa	ttctcctgcc	tcgaactccc	aaatagttgc	120
gattacaggt	gagcgccacc	atgccagct	gatttttttg	tatctttagt	agagacgggg	180
tttcaccacg	ttggccaggc	tggtctcaaa	ctcctgacct	tgtgatccgc	atgccccggc	240
ctcccaaagt	gctgagatta	caggcatgag	ccaccgtgct	cggccaaaaa	tgaagcattt	300
cttattagta	gaagaaagaa	gaccagctaa	acaggaagca	taatgaactc	ctagctaagc	360
tcagaggaat	ttgtctgcaa	aacccttaca	gaacaccaca	caatcaaatt	atttgctcca	420
tagcaacttt	acccccaaag	tgcanatctg	tttggcttat	tggcttgagg	gctacctgcc	480
aggatctang	nccatggttg	cttggcctct	gagctctggc	tttncatttc	cacnggtttc	540
tggtgggggn	ccctaaattg	g				561

<210> 10037

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10037

gaaaaagtata	taacagattt	ctttattatt	atttacaatc	aagttctgtt	ggccaacata	60
atgaaataaaa	taaaagatgt	gccctggcct	gtgaatttca	actctccttg	acttaagttc	120
tctgaagggc	aaattggaaa	gcggtgatca	ggcagggaag	agagggcagg	tggaggccag	180
gaccatcggt	gggaaggccg	cctgactcct	ctctcaccag	ctctaaccact	cacatcccca	240
aatgtccaga	gaacaagcat	ggaagaaaaa	aaataaagt	caaatttaaa	agtataaaaa	300
agggtgtttc	gcacacccaa	tgaactaaaa	ctttatacgt	aggtaaaaata	gtaaagataa	360
atgtttttcc	ttggccttca	tcacaacccc	tgaacaggaa	agatggcgct	gctgtgcttc	420
tgagcctagg	cttcttacct	aaagcaccaa	gggcatcgca	cacangcttg	gcaaaagggc	480
catggncaga	atcccacctt	nagacaagta	tggttggaang	ctcgaaaccc	ttggancccc	540
aacatgcang	ggg					553

09629469.072800

<210> 10038  
<211> 541  
<212> DNA  
<213> Homo sapiens

<400> 10038  
anacggagtc ttgctctgtc tccaggctgg agtgcagnng ngngatcttg gctcattgca 60  
acctntgcct cccaggttca agngattctc ttgcctaana ctcccagagta gctggggatta 120  
cagttgcatg ccaccacacc tggctaattt tttgtatttt tagtananat ggagtttcac 180  
catgttggcc aggatggnc tcaatctcctg acctcatgat ccaccacacct cagcctccca 240  
aagngctggg attacaggng tgagccacca caccggctg tcagtgnntt tataccatt 300  
ttggggaggg aaaaactgag catcccgaga tgaagtaact tactcagggc cgtanaaatg 360  
tgacaaaaat caatcttatt gactcattct aaaagcaact cattgcctct taaatgaaga 420  
agaaagacat ccttcagctg gctcttgggt tcanaccccc tgggctaagt cacttggct 480  
acatggntca tcanaatgcc cactctttgg acctttangg ggccacaagt ntttattgga 540  
g 541

<210> 10039  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 10039  
gggttgtgca aagaaagctt tttatttgag aacacctaga tacttttggga aatgttcttg 60  
ttggatcaca aacaacctaa ctgacagtct atcgccaaca tccacaaaca cagcaaacag 120  
tccagtccctg cagaccacac agggtagatc tagagggttc tacttgcatc acccacactt 180  
ccactcctgt gaaacaactg tcttgggcat gagaagggcc aggataggcc aggtgaatgg 240  
caggctgccc aacaaccccc atcccaaacc aacctccag gccatgggcc caagtccctg 300  
caggaagatg ctaataggta caacaggtag aacatgtaga cacaacatc tagtttattt 360  
tttctgactg taaccaaaagt cagcaaaaaga aacaacaaaa cttcagtgcc ctagaaatcc 420  
tcctggattc aatgacaaca catcaatggc cgggcacang gttggattcc ttttatgaaa 480  
tcacctata atctctcatc atnccaggac agtggctttt gggactgcat gaatcnttna 540  
tagtccccc ccaattntt atcctt 566

<210> 10040  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10040  
gggcagcttt catctgtgtt ttttttttt catataaaag ttacatgttt gaaatgtctg 60  
caggaagatg ccaccatcag acaggttiagc tggggcatat atattacaat gtaaccctgt 120  
ggaggtcgtg gggccggagc gggaagatgc tccagtgag gccctgggga tttgcctggg 180  
cacactgggg ccaggcacag ggtctgttct gaattcaggg aaggtgaaga gacccacact 240  
ctatccagct caagcccaag aacaaggcag acagagctgt ggacagcacc cgaccacaga 300  
cacggttctg cctgctgctg gagttagagg cctggtttct gaggtgcag catggcactg 360  
gcattgcctg tgctacagat ggggactcct gogagtotca caaatacagg gagaatttca 420  
gttcacacaa cccaagggcc ctgtgtgcaa agcgggcctt aaacgcgcac aggaacattn 480

09529459.072300



aacaaaaactt ggcaagggga agggganaaa anatcaaggt ttgnaatgaa gggncitttaa 540  
aaagaaggnc cnacttaaaa c 561

<210> 10041  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10041  
gatacagagt ctactgtgc caccaggt ggagtgcagt ggctgatct tggctcactg 60  
caagctccgc ctctgggtt caccgcatc tcctgcctca gtctcctgag tagctgggac 120  
tacaggcgcc cgccaccaag cctggctaata tctttttgta ttttttagtag agacgggggtt 180  
tcaccgtgct agccaggatg gtctcgatct cctgacctcg tgatccgccc gccttggcct 240  
cccaaagtac tgggattaca ggtgtgagcc actgtgcccg gcccaatttg tttttaagc 300  
cctgatgttt tctcagtttg gtttgaactc agtccctcta caaagtcatt ctaaactatt 360  
cctagactga tagaccattc ttggattgga ccattcctgg attgggcaat ggcaacactc 420  
ttccagaaac cattagaatg actctaaaga gacgagaagc actttttctc tctgcctctt 480  
cctaaaggct gaatatatcc tattggccat gggctgggtca attccttttg angtgaggga 540  
ttgactcctt ctcaactccc c 561

<210> 10042  
<211> 505  
<212> DNA  
<213> Homo sapiens

<400> 10042  
agatttaaaa gcatttaatg acatagcata tatttaacag atagggcaaa agttgagagg 60  
tacaggctgt acgactgagc accaggcctg agcgaccacc tccctgttca ggcccagcct 120  
ctggagttca ttcctatcaa tgtcattttg attgtgcagt aagatgaaaa tttgtcatta 180  
caatagttac agtgacagag aaatgcacac tatgtatcaa atagcaagga aatgaagcaa 240  
attataacac agtgtggcaa cgcacgagca agtaaccatt agagtaacat tactttgtcc 300  
agtaaagtct tcagttccac cacttgtaca cttaccaatg atttaaaggg tttattatac 360  
atctagtttt attatacttt gnactagaat tatctcaaac gtacaatata atgnatttca 420  
gcaaaaaaaaa aaaaaatttg aattaccgat tatttnaaac agnntcaggt ttctattcct 480  
tcttgatac tggcantntt aancg 505

<210> 10043  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 10043  
aatctgcaaa ccaagaacct ggaaaggaat acaaattcct tcctggaaaa catgtatccc 60  
ttcctgccct cctccacgc cctgataaat aacatgagca tgacgcgatt gccaacagca 120  
gtccaggca tgaggcacia catctgttac tgagacactg gagagacagt ggaaagcaag 180  
ttggctgcct gccaacctc agactccaga tttttgtga caaggctgtc aataaatggg 240  
cagatggcat cagctctgct ggcagaagag ttcagttaac ccagtgcggg acattatttc 300  
aaattcatgg tgcaccaggc tgagcccttt gttgggccat taaagccatt ccttgatgga 360

09629459.072300

gaagggagag	caggactagg	aaatcaggag	gcactagcctt	catttaatta	gattaactaa	420
gcctttccag	tggcagccag	aatcaganta	ncccttngga	acnttgaaag	ctatggattt	480
tttttttggg	tttggaaagg	ccgggaaaaa	ncctanttcc	acattgnatt	ttatgccat	539

<210> 10044  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

<400> 10044						
gagatggagt	cttgctcttg	ttgccagggc	tagattgcaa	tggcgcgac	ttggctcact	60
gaaatctctg	cctcctgggt	tcaagcgatt	ttcctgcctc	agcctcccg	gtagcaggga	120
ttaaaggcac	atgccaccat	gcctgggctaa	ttttttatat	tttttagtag	gaaagggtgt	180
caccatgctg	gccaggctgg	tctcgaactc	ccaaccttag	gtgatctgcc	tgtctcagcc	240
tccaaaagtg	ctgtgattac	aggcgccctc	tttccttaat	aatcccta	ttttggctag	300
gttgttgggt	aaaagtatt	tcctgataaa	caaggcggtt	ccttatatat	attatcaata	360
aaattatatg	tataaataca	tggaaatgca	cgcatagtat	tgcattattc	aataagaagt	420
tttacagctg	aatatccctc	ttaagaattc	cttgaggggc	aagactctat	ttcctttttt	480
tccttttcc	ttttttttga	anccgggttc	ccaggntgga	atcacagggg	gggaacntn	539

<210> 10045  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 10045						
gagacggagt	ctcactctgt	caaccaggct	ggaatgcagt	ggcacgatct	tagctcattg	60
caacccccgc	ctccccgggt	taagcaattc	tccttgccct	agcctcccaa	gtagctggga	120
taacaggcgc	ccgccaccat	gcctgggctaa	tttttgtatt	tttagtaaag	acagggtttc	180
accatgttgg	ccaggctgggt	ctcaaactcc	tgaccttagg	tgatccgccc	tccttggcct	240
cgcaaagtgc	tgggattata	ggcgtgagcc	accatacctg	gcttgctgct	accttttaaa	300
tgtacatagt	aatcaaactg	atccacagaa	tgtccctttc	agggacatga	taactgaccc	360
cctgaaccag	ccagaaagag	gagagggact	tgccttaagc	aagtattgtg	ggaagatcac	420
caaattacta	gacatggatc	actatccntc	tggatccggc	cccaaacaaa	cnttaaaatt	480
accttaccaa	acangngtag	aacaatntga	aatggaatta	aaaggngccc	caaactggat	540
tgn						543

<210> 10046  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

<400> 10046						
gctcttgttg	cccaggctgg	agggcagcgg	cgcgatctca	gctcgtgcaa	cctcagcatc	60
cctggctcaa	gtgactctcc	tgccctcagcc	tcccgagtag	ctggaattac	aggcgcgcac	120
cacaacaccc	agccaatttt	ctgtattttt	agtagagacg	gggtttcatg	ttggtcaggg	180
tggctcctaa	ctcctgacct	caggngatcc	acccaccttg	gcctcccaaa	gnggtgggaa	240
tacaggcatg	agccactgng	ctcaggccccc	aagcccccat	tctttctgta	acctcaagat	300

ggcatataag	cttctgcacc	ccattgcana	gtggggagta	atcaatcact	ctgnggttct	360
ccctgtgtgc	gcattaataa	atttgcacgc	cattttctgt	attcatctgc	cttttgnacg	420
ttgacttttc	agtgaacctt	tanagggcaa	aggggaaagt	ttcccttggn	tttcataccn	480
tcaaaccttt	ttcaccaggc	ngaaanaagn				510

<210> 10047

<211> 423

<212> DNA

<213> Homo sapiens

<400> 10047

gcttagaaaa	ttcagcttta	atggccccag	ccctttctgtc	tgagtctagt	agtccagggc	60
acagatgagg	gccacaccac	gctttatcca	gtgtcgctgg	ggctgatggg	tggggatctc	120
cacagcaatg	acatagttag	tagagtgtcc	tgtggttgat	agtgttccag	cacgagtcag	180
tgtctttag	atggggcaca	ggtaaaagtc	ctggctcctgg	gccttgcggt	tgggtgttgg	240
caagagccag	ataacggcca	tctctgtgta	cagctccttg	ggctgagact	cagccagctg	300
gaaggcctct	ggatcccagc	gggcaccttc	caggaataat	ccatggatat	agcaccctac	360
ttggggtctt	tgngttaact	ctgatggtgc	ctnaaacatn	accttgnaat	caaangguna	420
tgn						423

<210> 10048

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10048

gagacggagt	cttgctctgt	cacccgggct	ggagtgcagt	ggcgcgatca	tggctcactg	60
caagctccgc	ctcctgggtt	cacaccattc	tccagcctca	gcctcccaag	ctgctgggac	120
tacaggcgcc	caccaccacg	ccaagcgaat	tttttgtatt	tttttagtag	agacagggtt	180
tcactgtgtt	agccaggatg	gtctcaatct	cccaaccttg	ngatccaccc	acctcggcct	240
cccaaagtgc	tgggattaca	ggcgtgagcc	actgtgcctg	gactaaaaca	atgctttcta	300
aagcgcattc	tgcagcctga	tgtgcctgtg	aggtgagagg	tgtgggaggg	acagaagctt	360
tgttcaaaga	ggtttgggag	aggctggata	cttagctccc	ttcttgnaag	tttgccacac	420
acattggcat	attaaagggt	ctgagaaaagc	attcagggca	ctggtctggt	taagggggccc	480
ccaataactt	ggccccatna	cggntaattc	tgggaantta	gttaataacc	tagggttcgg	540

<210> 10049

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10049

aaagacagag	ttttgctctg	ttgccaaagc	tggggtgcag	tggcacgato	tcagctcact	60
acaacctctg	ctcctgggtt	tcaagcgatt	ctcctgcctc	agcgtctoga	gtagctgaga	120
ttacaggtgt	gcaccaccac	gccagcaaaa	tttttgtatt	tttagtagag	acaggttttc	180
accacattgg	ccaggctggt	cctgaactcc	tgacctcaag	tgatccacct	gtcttggcct	240
cccaaagtgc	tgggattaca	tgcttgagcc	actgcacctg	gccccatata	gagtttttat	300
tgncattatt	cccatattac	agatgaaggg	actaaggctc	aaagggtaaa	taagtctgtt	360

cttaaatagt	gacttcctga	gacacaggag	atgtttaaga	acagtactgg	taggtgggaa	420
gtggcatttt	ggagcaggag	tgagaagcct	tgaaaatgta	tnaaganttg	aaaaagggnn	480
gggaaacann	ccnatta					497

<210> 10050  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 10050						
aattggatga	ttttggacaa	gtctgtgcat	ttattcatat	ottattccat	gtcagggggac	60
tcagtacaaa	ggtgaaaaag	acaaagttgc	tgttctcaag	gagtatactt	tagacacata	120
agctagcaat	aaacaaacag	gatgatttta	gctcatgaca	gggctacaca	gacagtaaca	180
gtgatgagat	agagtgatgg	ggaagagggtg	cttaaaaatgg	ggttggtcagg	aaaggcctct	240
gctaaccacc	agatctcatg	ggctcatctt	gagatttaac	ccagcaaacc	tcttctgagc	300
cagttggcac	cactgatctc	cctccccctcc	tttaaactgt	tgcccttccct	gatttctgtg	360
acaagatact	ggtgtcacta	tctccttgnc	tcctcctact	tccagctccc	tctttcagcc	420
ttctatgcag	gcacatcttc	ttttgccacc	cattaaaatc	cctgggtngcc	angacaacca	480
ttccttctgg	cggnttgaaa	gaaagctcaa	gtgcncacaa	ggccnnn		527

<210> 10051  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 10051						
aaagacacgt	gtctccctct	gttgtccagg	ctagagtgca	gtggcatgat	catagctcac	60
tgtagcctcg	aactcctggg	ctcgagccat	cctccaacct	cagcctcaca	gatccctaca	120
actacaggcc	catgccattg	tgccctgttg	cattcttttt	acttttttgt	agatactggg	180
tctcactgtg	ttgcttaggc	tggtctcaaa	ctccggggct	caagcaatcc	tcccacctcg	240
gcctctcaaa	gtgttcggat	tagaagcatg	gaccactgca	cccggccttc	tgagctcttt	300
ttcaactagg	tctcaacttt	tggacttctg	tgttcatctc	tgccctgttc	aatttttagca	360
agtatcgtgc	ttaaagttggg	tttagctaga	atcctcatcc	tnacacatcg	atcactctca	420
aaatctaata	gggcttctta	tcctntggca	tccttcatga	atggctaatt	accctgggct	480
ggccctnaac	aagaaatcct	ggtanggact	atttaaccgg	aattccccac	aaatgcctgg	540
aggaancctc	ttanncattg	ggcn				564

<210> 10052  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 10052						
acaatgctaa	tgttatttta	tcttgaaaac	aatcttgaga	agtaggaatt	attgtcctct	60
ttcacaagac	aggaaaaatg	aggccaaggg	ttagtgaact	gctgagggtc	acacagtgc	120
agagtggat	cctgggtccc	gtccctgact	tcttccctag	ggctcctcct	cctgggcctc	180
tcactcagag	gaagcagggc	catcagtggg	actgggtgca	gctcttgggg	agctattttc	240
ccccagggtg	gttaagttct	ctcctagtat	acaacaggat	ggtggctaca	ccgtcatgat	300

008220.6945969

agggagaaca	gctatcttag	gaggctgctt	gctagacaga	gatgggtgtg	tgtgccgtgt	360
ctgtctgtct	gtctgtctgt	ctgtctgtct	gtctgtcctg	gtccagagc	ccgtcaattc	420
ttcaacctcg	ntttctctta	ttggcctttt	ctggacatag	ggaanaagt	cttcttcctg	480
gtgncccca	gaatactcct	ggctntttca	nttttcccaa	atccatcctg	aatggncct	540
ttggcttgcc	ccaag					555

<210> 10053

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10053

aaagggcaca	catacacttt	taccgtttac	accaaaccag	aatcaaaacc	caaatacagag	60
tatccagaaa	tccaagccag	gtcaaaaacca	aaacgaaagt	atcaagcaat	ccaaatcaag	120
tcaaaaacaa	aaaccaaagt	gccggtacag	gcatgccgtg	ggtgatcagg	ccacccttcc	180
actcaaatgg	agtgggcaag	ttccaaagac	tagtcttacc	aagtttcaga	tgtccggact	240
ccaagtgcct	gttccttccc	agtgttcagc	cgctgcattg	atcctctgtg	gtggcctgcc	300
acacgccact	ctggcgaggt	gttccactgg	ggcaattgcc	taccggggag	tgctctcagg	360
ttctgcgtcc	ctcaagctgg	ccagagtccc	ctgtagggat	gctccacagg	gcaggcctat	420
gctgcctaag	gggcttgctt	cgactatctg	gtaatcacct	ggctttccaa	tcagggnacc	480
ccagaaatgt	ancanggaca	agnccgnang	ggttggattt	cancctgga		529

<210> 10054

<211> 496

<212> DNA

<213> Homo sapiens

<400> 10054

gagacagagt	ctcagtcacc	caggctggag	tgcagtgtcc	cagtcttgac	tctctgcaac	60
ctctgcctcc	tgggttgaag	tggttttcct	gccttagcct	cctgagtagt	ggggattaca	120
ggtgtccacc	accacgccc	gctaattttt	atatttttag	tagagacggg	gttttgccat	180
gttggccagg	ctggtctcaa	actcctgacc	tcagggtgatc	cgcccgctgc	agcctcccaa	240
agtgtctgga	ttacaggcgt	gagccaccgc	gcctggctaa	agcagtggtt	tttataaggt	300
atctgctcca	gtttctacct	tcggtagtga	caatgtgttt	gtttgcattt	cccacacgtg	360
tgtccaatgt	ttgcttggtt	tcttcttcag	gaaatcaact	ttttgtgagt	gtgctgaagg	420
caacangctt	tgccagtaca	cagaacttcg	tgaaaaccac	tngaaacngn	cacttgctca	480
tctgnccntt	ctngng					496

<210> 10055

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10055

gagatggagt	tttgctctta	ttgccaggc	tggagtgcaa	tggcacgata	tcggctcatc	60
aaaatctcca	gtccccgggt	tccagcgatt	ctcctgcctc	agcctcccaa	gtagctggga	120
ttataggctt	gcgccaccac	accagctaa	ttttgtattt	ttagtagaga	tggggtttct	180
ccgtgttggt	caggccggtc	tcgaactccc	aaactcaggt	gatcagccca	ccttggcctc	240

ccaaagtgct	gggattacag	gcctgagcaa	ctgcgcccg	gctttttttt	tttttttaaa	300
agatagtctt	gctctctcgc	acaggctgat	tgcattgggtg	cgtgatctca	gctcactgca	360
acctccgcct	cctgggttca	agcaattcct	gggnattttt	agtaaaanat	ggggccttcc	420
atattggccc	aggctggnct	aaactccngg	ncttaaacca	nn		462

<210> 10056

<211> 417

<212> DNA

<213> Homo sapiens

<400> 10056

gcaaagacaa	acatttttatt	tttcatgata	ggagctgtag	cagagtatat	gggggcctct	60
gccagccccc	aggctgggac	tggggcctgt	gaccttgaga	acctcatctc	acattctgca	120
gactttggcg	gcggggcagt	gctcgaccac	tggctgggtg	ggctgatctc	agcctctcct	180
gcaggcccag	ggctgaaatc	ataaccgtca	ggcccagcct	tggccaaaga	taatgcaact	240
ttggcagggc	tggctgctgg	gagggggcag	gcacttgctc	ctcgtagagc	aagagtgggt	300
ttcttccttg	acctctccct	ccaccccggt	agggtgggtt	ccttaggaac	tcaggcctgc	360
gggagaaatg	gttccagctt	ctggaggctg	ggtgggggtg	gggttggggg	nnnnnnnn	417

<210> 10057

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10057

gaccagaaag	agactttttc	taatacagca	gtgtttttggc	tgggacaggt	tggccggact	60
ctccaggaac	gtggtgaaga	gcgtggggga	ggcggttgag	gcagggcaga	gccaggctg	120
cagagctgtg	tgcttcacaa	gttggctctg	tggctgggaa	ggctccacgg	ccataaggac	180
cctggccttt	gatttccttg	gaggaacagc	acttggaacg	gagtaagaat	ttcaggcaat	240
cacctggttt	ccccaatggc	tttcttgtct	cacggacagt	ttaacaaagc	tggcagagtc	300
ctgtaactag	gatctgtaac	tttgggggta	agggcaagta	ggaacagaca	tccaaaacaa	360
ctgagtgtcg	ggataaaggc	ttgaccggaa	agatttcagg	ggccnnggct	ttgtttgcat	420
tntggnaaac	tnntcan					437

<210> 10058

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10058

ctagagtttg	tctattttat	tagtcttttt	aaagaaccat	gtatgtcagg	tttccttcag	60
gaaatagatg	gtgtattcaa	actggataat	ctaataaagt	tatatattata	aaagtataga	120
aagagtatag	tgaaccaca	agtaatagca	gaatccccctg	ggactgggac	aagaggatgg	180
agcagtcacc	agaacctgga	gacagagagg	gctgcctggc	ttcagataat	gtcagcatct	240
gtgctgtatg	agttccagt	tggcagccct	ctcctaaatt	accccaattc	cctctggatc	300
tgggatctgc	tccctcctct	tgcctctgag	gtctgggggt	gggaaaggct	cccactctt	360
gctagttcca	gggtgcttca	ctggccttta	tgagtttccc	ttcaccctgt	tcacaccttg	420
gtgaatattc	tcttctgac	atgctcctca	gttccnccact	tgaatgggcc	atctgnttct	480

tggcgggacc ntgactgcac tggttcattc caancctgggtg agctgggctt taaattggnc 540  
ctgggtaacc 550

<210> 10059  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 10059  
gagatggagt cttgctctgt tgcccaacct ggagtgcagt gttatgattt tggctcactg 60  
caacctctac catgttcaag cgattctccc acctctgcct cccgtgtagc tgggatcaca 120  
ggcacacgcc accacaccta gctacttttt gtatttttag tagaaatggg gtttcacat 180  
gttggccagg atgggtccga actcctgacc tcaagtgatc ctctgcctc ggccttccaa 240  
agtgcctggga ttacagggtg gagccactgt gcctggccaa aaatgtgatt tcttatttcc 300  
cacattgccca attccatttc aattaactat aatagctatg tctattgagc actcaagcgt 360  
attctagaaa ctgttcctga ttctggggat atatccatga atgaactata gtccctgtta 420  
ttaagtaatc cgtagtctga ctaaaccatt agaaattaaa aaaaaaatgg ctactttcaa 480  
agacatcttg gagttcanga gtcccacact gggaaccatt ttacctaata atncaanctg 540  
nttggaaatta ac 552

<210> 10060  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 10060  
catagggtct cgctctgtca ctcaggctgg agtgcagtgg tgtgatcatg gctcactgcg 60  
tcaactgtagc ctaccctcc tgggctcaag tgatcctcct gtctcagccc tccaagtag 120  
ctgggccaca ggtgtgtgcc accatgccca gttttttttt tttttttcgt aaanatgggg 180  
gtctcactac gttactggg ctggtctcaa actcctgagc tcaagcaatc cttccaactt 240  
ggcctcccaa agcgttaggc ttacaggaat gagccaccgt gcctggccan aatcggttac 300  
atatatgtga catatgtgta atacatgtgt gcctgtcccc aggtntcagg gcagagagaa 360  
cacactttct cctactattt taccacacc ttcttgctgg gaggctatta aacctgaagg 420  
tctggtacta tgtantgggt aagggtgana tatggattca aaccacactg gggtttaagt 480  
ccctgnnttg gcaattaatt ttaatgggac ccctgggcaa ggggaaccnc cctttttggg 540  
ncctgggttc cctngttn 558

<210> 10061  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 10061  
ctgctcgggt ccatttttatt taatgcaaac actagacagt ttacaagtca cacctggaca 60  
caagcacgtg aacagatgta cagggaattc tggaattttg agatcagtc ccatctcttc 120  
ctcaggggccc tgggactgaa cacggtctca cagacagcac atattctacg tcacagctct 180  
agggtttcaa ggacttagcc atccgacagg cctcaccata aaggtaaagt ggacaacccc 240  
tgaggtcacg ctgtccaggt ggcgacaggc cagcatgccc aaaatcctcc atagccacct 300

cgggccagc	accagccaga	gggtggggcc	atcggttctc	gacatacttg	gtataaggga	360
gggacaagcc	tgacaaagtt	cacaatctgg	ccaatgagtg	tgggaggccc	tgaaaacagg	420
ccaatcctgc	aagccacccc	acccttacta	acttcctgaa	catgggaagc	tttttgagac	480
caggnccaag	gttccttttc	tttattggga	ccacgcacaaa	ggcatttntg	cantgcttga	540
aggtcccccct	ttaaaccn					558

<210> 10062  
 <211> 540  
 <212> DNA  
 <213> Homo sapiens

aaagggaaaa	aaaattttatt	aggtccagga	atcaaagatg	acttgataga	attatgaata	60
catgcagaat	tggatgggta	gaaatgaaat	caatctatit	aggtccagcc	taaggttctg	120
atagccaatc	agtagacaca	atcagagtag	tagtatctct	aagaaaccag	gataaatctc	180
caatgtgcat	gagtttaatg	aaccagatag	attattgtat	cgccaatatc	cacccttctc	240
ccattctcag	tcagatgaat	tttcttgctc	atgagggtcca	cattgaaaac	agcatgctca	300
gaaatggggg	tcttctcggg	gtactccttt	cccaggacag	gaactcgtcg	aggccccaac	360
agtggatcat	caaatctcat	cagtttcaact	ttggaaagggt	ctttaattcc	tcgattcatt	420
ttcattaaac	gcctgattat	ggaatcacag	ntatctncnt	gnctggattt	caattttggg	480
tgaaaagtgg	ccttgatgg	ctggggggatt	ccnccgaaaa	accgggncccn	ccaaggttct	540

<210> 10063  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

ccaagtcctt	tattttactg	atgagaaaaac	agccagagag	tgaaagctga	tgattacaaa	60
tcacagccat	ganagctggg	ctctgcactc	agccctgctg	ggctgggtgg	ccgctgctca	120
cggngaccct	tcaaggcagg	cctcattctg	tccagtanag	gtgtgggtac	taagtcatag	180
agctacagag	gtgaggggacc	aggtgccctc	actttgggtc	caagacccat	ctgcaccca	240
caaatgccac	cagccacacc	tagaacaata	tggttttaata	caattgcgtc	accctcactc	300
tcctgggagc	ggagcaacaa	aaaggctcgg	ctcctgcccc	cagaggacag	taaggcttat	360
gtgtctctcc	acactgcagg	gcccaggctg	ggcaggcagg	gggtgggaag	caggacaggg	420
ggcagggaag	gaagggttgn	aggcaggga	ggaaatggca	ggtggctgga	acccangaaa	480
gccaagggga	nccaacttgg	nccttggggc	ccaggggcca	nccccaatac	tncngttttc	540
cnttttctg						550

<210> 10064  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

aatggtgatt	tttctttatt	tccccgcacc	ttcaatctca	tggcatgggtc	tgcaggaaac	60
ctcagagtcc	tgccaactcg	caggcttcgc	tgatcgcagt	gcacctgggc	accccgccaa	120
agagctgaaa	ctcccaaggc	tcagccagga	ctctccagct	gtggtgtttc	taaaagccgt	180



tctgggtgag	atgtagagcc	gagttttccc	agtcgctcag	tcctcctccc	gtgaggacaa	240
cactgcttgc	tctcctggct	tgccctaccc	atccaggaaa	aggtggggag	gggctctagg	300
cagcggcctc	tcctgggtga	aagaaactga	gacctgggcc	ttccgtccag	tttaacctgg	360
agcaggcctg	gcccctgggc	aggctcagag	caggctcccc	attcagcaaa	tgagggtatc	420
ctcctatatt	gccaacatcc	atcttcaccg	acttggcctg	aacctattct	tgagtacaga	480
nggacaccca	tgacagaaat	nccangtnac	ttttgctgga	agccactggg	ctggaanagg	540
acttnttt						548

<210> 10065

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10065

agacagagtc	tcactctgtt	gcccaggctg	gagtgcagtg	gtgcgatctc	ggctcactgc	60
aacttctgcc	tcccaggctc	aagtgattct	cctgcctcag	cctcccagat	agctgggact	120
acgggagcat	gccaccatgc	ccagctaatt	tttgtatttt	ttgtagagac	ggggtttcac	180
catgttggcc	aggctggctc	cgaactcttg	acctcacatg	atccacttgc	cttggcctcc	240
caaactgctg	ggattacagg	cgtgagccac	tgcacctggc	ccccctctg	ccctctcttg	300
agaggcaagg	cattttctat	acaggggtga	ggaaaagtta	aactttctat	acagtaagtt	360
agcaatgcc	aaatcccaac	tgagaaaacga	tgtaaatttt	agtgataggg	ctgtaaccac	420
taggtaatgg	caaggacata	aatcccaata	ttcacaagtc	cttgtgggga	agggtgtgat	480
attgnatctn	cctgncactt	tatgttcata	tatggaaaca	ttatggaaat	gacctattac	540
catcttttta						550

<210> 10066

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10066

gcccctttta	caggggagac	gtaaagctgt	cccagttatc	aaaaaattca	aatctccttt	60
tcttctgttg	actggctgtc	aatgagcttt	catccagggt	gtctcccatg	ttctgggaac	120
tacttccaga	tgttcctgaa	gcacttcctg	ggcacaagga	ctctgctgct	tccaggagct	180
ccatatcact	tccttctttc	tcaaaggact	tctggaatag	gtcgtagatc	ttctgoggct	240
ttgggtcctt	gtagaggtaa	tcagtggatt	ctgtcatttc	tgaaaaattg	gtctcagaaa	300
gcccggcttc	tgccagaact	ttaatcttct	cttgaatcag	gggccaaaag	tagtcatcag	360
ctgtgccctt	tgccacgagg	tagtgaatgc	ccacggagct	ggtctgtcca	atgcggtgca	420
cgcggtcctc	agcctggatc	agcacccttg	ggttccaaaa	cagctcagca	aacaccacca	480
ggtcaaccca	ngaaaangtg	aagnccatat	tggcagcggt	gatggacagc	acgggcacag	540
catgctttt						549

<210> 10067

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10067

ctttgagatg	gagtttact	gttgttgcc	aggctggagt	gcaatgccgc	aatctcggct	60
cactgcaacc	tctgccttct	gagttcaagc	gattctcctg	cctcagcctc	ccaagtagct	120
gggattacag	gcatatgcca	ccatgcctag	ctaattttgt	attttttgta	gagacggggt	180
ttctccatgt	tggtcaggct	ggtcccgaac	tcctgacctc	aggtgatcca	cctgcctcgg	240
cctcccaaag	tgctgtgatt	acaggcgoga	gccaccacgc	ccagcctcaa	tttaaccttc	300
tttcttccct	gacaccgcac	atcctgactt	ctccccctta	tcctaatacca	ggactactcc	360
ccactccttc	ctagttacct	cccctaccct	ggggctcctag	ttggcaagga	tctgccaaagt	420
ggtctgggtc	ttgaagaagg	tggtgccaac	acttttaaaa	agaacctaat	ggaaaacang	480
cttgggggtg	ggaagggaaa	gggttgatta	ataatcaagt	ttcctccaaa	tagccggaat	540
ggaaagggct	tgg					553

<210> 10068

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10068

atgtttcaca	atttgtatgg	ctgattctac	gcacatttaa	atgtgtttat	gacaattgta	60
catttcagtt	ttcctctggt	taaaccaatg	tggaagtaca	caggatggga	gctgagagac	120
aagcatcctg	ggcccagcca	tgctggcctc	agtggggcaa	gctggggaca	gatgacctct	180
gctccgtgga	tcctgctggc	tcagggtggg	gaaggggcct	cagaagagga	gtcaggctct	240
cctctttatt	ctcctcacag	ccatggtgaa	tggtattcct	gggaggctgg	tttgagaaac	300
tcgctgaacc	taagttagca	ggaagtgaag	gtctgttccc	acctgtgcct	gtgttcccag	360
atagcagctg	cctccaggag	actcaccagg	agccagggtc	ctccatacct	gatctcaatt	420
aactcactca	ccaaggagcc	caggctccctn	ccatacctga	cctcaattaa	acttaactta	480
cccaggagcc	aaggctccctc	cattaccntn	anttaccaac	aatcaagtnn	ccttcanacc	540
ttatcttaat	tan					553

<210> 10069

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10069

caagtttagg	gatgtgctct	atatttgcat	ttttcttttt	aaaaggcaca	gtttttattt	60
taacgacgct	gcattgctct	ttgatgatga	atctcaattc	gactcctcaa	actgtcaaca	120
ctcttggtat	cctagattct	agaagggggc	tcactttttg	acttctttct	atagagggcc	180
acatctaaag	ctacagcact	catttggaag	aggacactgg	gatcaacacg	taagcgttgc	240
aagcacaggg	gccgcctctc	ttgcagacag	gtggccaaag	cagggtctgt	gctggggccag	300
aagtgggaagt	aattcctcgc	cagctacaca	ttcagtctga	ctggtggatg	attgggagtg	360
tttgtccctc	cctcccccaa	taattgatgg	ccttgagatc	tgccagcatc	tcaaaggcag	420
attcgtggct	ctgttcccag	acttaggtct	cagttattta	atttgtaaat	gacacaatca	480
aagagactca	acacttaatt	gggaatgctg	attcaagtat	ttcctgggct	aactngtgga	540
agccataaat	tgg					553

<210> 10070

<211> 504

<212> DNA

09629469.072300

<213> Homo sapiens

<400> 10070

gaatggaaga	tattgcaaca	ctgggcccac	agatttttagc	aatagcaaca	tttgcaggga	60
gctggtttagc	agttgccctc	atctgatagc	acatgcattt	tctagctccc	tcaagttctc	120
tctgctcact	ttggtacctg	cctggctttt	atagacatca	gagtttgaaa	tctttttgtt	180
tgtttgtttg	tttgagacag	ggtctcactc	tgttgcatag	gctggagtgt	agcggcctga	240
tcacggttca	ctgcagcctc	tacctcccag	gctcccagaga	tcctcccacc	tcagcctccc	300
acctagctgg	gaccacagcc	atccaccacc	atacccagct	aactttttgt	attttttgta	360
aagaccatgt	ttcgtcatgt	tgctcaagnt	ggtctcgaac	tcctgagctc	aagcgatctg	420
cccacctggg	cctcccaaag	tgctgggatt	acaggcgtga	cccactgngc	atgacctgaa	480
atnnttattt	nattngnnaa	cttt				504

<210> 10071

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10071

gttgctttcc	cagactttta	tttgaaatgt	gactgctttg	taaaactcca	gagtcaagga	60
ctcataggca	ggaggatgtc	ataaattaac	aggaaaggat	gagaaatctc	cactccactc	120
cctcctccct	cccttgatca	ctcattccct	ctcttacatt	cattaaccac	ccactacatg	180
ccatgcccta	aggaagcagc	tatctaagaa	gtccctgcct	gcaggggctt	tacagaccag	240
gaggaaaggca	acccatagag	ccaggatcct	gataaccact	gctgactgcc	cctctgccta	300
ggcaccagct	aaggtggctc	caaaaagtga	ggccttgntg	ggaaggggaa	aaacagcaaa	360
ggtcagcttg	gatgaaccca	tccagaattt	tgcaatcaga	aataacctana	aaagaattat	420
tttagaagaa	caggggggatg	ccaggggcttg	gggatgagga	atgatgtttt	cagtgcctaa	480
ggccccctgaa	ngtcttggtc	tttctgctca	aaaacgcaag	gggggtccca	ggttgccctt	540
tcanagcttg	cctttaatnc	tggcanttc				569

<210> 10072

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10072

cactgctttt	cctttattga	taggtcagag	agcatttcct	ggcaccoccca	gggtacagcc	60
ccctgactcc	tgctacccaa	gaaggccacc	ctttcctgcc	tgtgatactc	cgtggcatct	120
gttctgccag	aggactgacc	ctttgtgctc	cacatatgtt	ttgccaggaa	acacttatct	180
cagccacaaa	ccgtccctgt	cctccaaaag	actcagagct	gcttacaagg	ggctgctttg	240
gtcagtcagc	tgttagtcc	ggggctcttg	cctcctctgt	gggggtagca	tcagtcaccc	300
taaagtcttc	aggccgccgc	tagctagtga	gttacaagat	tttagaaaacc	agctcttgct	360
cacagatcct	caggccccctg	gttcttggat	ccagaggcgt	ctgaggtagt	ttcacaggca	420
cctgctgctg	ctgctgctgc	ctctgctctt	gccctcagtc	cccgtctttc	cacctgggtc	480
cccttgcaact	ttcatgcctg	angctgactg	gtggccaagt	ctaaaactgag	ggncttccgg	540
anaccgagaa	cccgccgaac	ngccttggan				570

<210> 10073

<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 10073

cttctgagac	agagtcactg	tcgccccggc	tagagtgcag	tggcgtgac	tcagctcact	60
gcaacctcca	cctcccgggt	tcaagtgatt	ctcctgcttc	agcctcccaa	gtagctggga	120
ttacaggtgc	ccaccaccac	accagctaa	ttttgtatt	tttagtagag	acggggtttc	180
accatgttgg	ccaggctagt	ctcgaactoc	tgacctcagg	tgatccaccc	gccttaacct	240
cccaaagtgc	tgggattata	ggcgtgagcc	actgcaccca	gctggaaaat	acttcttaaa	300
tgcaatttat	aagcatgtgt	attagtttcc	tattgctggg	ataacaaatt	actacaaact	360
tagtggctta	aaacaacaca	gatgtgttgt	cttacagttc	tagaggtag	ttctaaatag	420
gtctcactga	gctaaatcca	cgggtgtcagc	agagctgtgt	tctttcctag	agcttctagg	480
ggagaatctg	gtttcctggc	tttttcacagc	atctagcaact	ggcacaanttc	tttggccttg	540
gancttggtc	catnttaaat	tcat				564

<210> 10074  
<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 10074

aacaagtaaa	tcattggcct	tattctgggt	cctggaagct	ccactgtgag	tctgaaaaaa	60
agacagaaca	ggggcggcag	ccctgggggg	tggtgcagaa	aatagtcctt	ggctcctctg	120
gccctgggag	cctaaagggc	agtgaggaga	aggcttagca	agaggcctgg	agcaggggaa	180
gtcagggtccc	tcaggaaccc	ctcctcccc	agaggaagga	ggaagagggc	tggagagtct	240
gctggagagt	ctgctcagtt	cctcagcaac	tgactgcag	gagggtgcag	gccatgggtt	300
actccttgcc	cttctcaggg	gcagtgggct	cccagagcca	cttggttagtc	cccaggggct	360
cagtcaccagg	gtccagccgt	gactccccta	agggcccctc	gccctccaag	tccagctcct	420
caaaagagga	gcccgtctggc	gcctgactcg	ctgtagctgt	gctcgtctcg	ggtgtcaccg	480
tcatcccagc	cacngctgna	cgcctcagtg	acagtgtggc	aacttgaagt	cttcccgggt	540
gcaaggctta	ctttcagctt	acagaactcg	ggtn			574

<210> 10075  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10075

agaaaaataaa	aactttat	ttttcaagtt	tataagatag	ttcccattac	atataacatt	60
acggctcacgg	attctacagc	cacaaatgcc	cgcagtcaca	taaatatatc	caatccaatc	120
aatgcctttt	cctgctaaca	gaggcatctg	aagttcagag	ggagagtgcg	attttaagta	180
aaagtcgtcc	ttaatgggag	ggctcctgtc	agtgcattag	gaactagcca	aggagccttg	240
cttgccagag	ctgtctgact	cagaggagag	gaagggacag	atggcctgct	gactggggct	300
gaggcagaac	tagattttct	ctcttgttgt	ttaagatatt	ttagaatctc	ggaattcaga	360
tcctatagtg	ggaatatctg	gggagttcta	acttctggat	gaaaaaggaa	accaatttag	420
tggttaagaaa	tagaagcctg	cttaagaggg	accctaactg	cctccttgag	gagtaaggag	480
tcagaggaag	accctaagct	naccattcct	tggncacaacc	attgntntac	cccatacttc	540

09625469.072800

tttccttggg ggtg

554

<210> 10076

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10076

cttttttatt	tgagacggcg	tctcactctg	tcacccaggc	tagagtgcag	tggtgcgac	60
tcggctcact	gccagctcca	cctcccgggt	tcacgccatt	ctcctgcctc	agcctcctga	120
gtagctggga	ctacagggat	ccaccacat	gcccggctaa	ttttttgtat	tttttttagt	180
agagacgggg	tttactgcg	ttagccagga	tggtcctgat	ctcctgacct	cgtgatccgc	240
ccgcctcggc	ctcccaaagt	gctgggataa	caggcgtgag	ccaccgcgcc	cggccacat	300
tggtctttc	tatgcaccca	gttggatggg	caatttacct	atacctggca	gacaaaaagg	360
aagataactt	ggggcctcgc	agctgtgcgc	accccatgga	aaccaccaca	cagcattttt	420
ttttttttt	ggagacagag	tctcgttctg	ttactcaggc	tgagtgcaa	tggtgtgatc	480
tcggntactg	naagctccac	ctnctangtt	caagcgattc	tncctggctta	ncctcctang	540

<210> 10077

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10077

cacctaagtc	tttatttatt	tggtcttagg	aagaatttgc	atgaaaatga	gcctgtatgg	60
caggtacaga	atgtactgta	acagcaccag	agaggtacat	cctctctcct	ctacagagcc	120
tcaatgttta	atacatat	gtgacttttag	tcataaaaacc	acatagtcca	ggaaaaaagg	180
agcccttttag	aaaaaaaaa	tcagttttaga	atgacttttca	aattgaccat	tcctttttcaa	240
atacttaaat	tcaataaaca	gatacattca	gaggcccaaa	tggttgccata	gaataaaatc	300
atgttcattt	atttttttct	gcactcttaga	attagaaggc	ataaaattaa	atatgttgaa	360
tgtaataaat	tcatccatac	aagtgcaggt	ctccagatat	aatgcatttt	atggcagatt	420
tattatttta	aaaatgtnc	agtaaataca	aaaaagaggg	agtatgncca	tttaactttt	480
aatggaagng	atgtaggagg	cttcagaaat	caaatgngag	cntgaaaatt	ggccaacctt	540
aaaactttca	aatctgggna	aagtg				565

<210> 10078

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10078

gtagagacag	ggtctcgcta	tggtgcctag	ggtggtctca	aattcctggg	ctcaagtgat	60
cttctcacct	cagcctccca	aagtgcctggg	attataggca	tgagccactg	cacctggctg	120
agatgaaagg	tcttactcac	ttttcctggc	tctttactcc	tggtgtggca	ctatacaaag	180
ccatgacgtg	gaaactgagt	cacatacctc	ctagttgggc	cactcaaaat	aactcagatt	240
gccatccacc	catctttttg	gaaacgtaag	tttccactaa	atgttctatg	tgggcacaga	300
ccagtacaga	gggaaacagg	ttataattag	ggagagctgt	tgctcttgga	accttctgga	360
ttttaatggc	cccgagaaat	caagtcaaaa	caggcttcat	gctgttgctg	acttgccagc	420

09629469.072800

cattgctgac ctaaaaatag angaaggggc cataaaccaa tntacatang tggcctntaa 480  
cagctggaaa angcnaaan 499

<210> 10079  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10079  
agatggagtc tcaactctgtc gcccaggctg gagtgcagtg gcacaatctt ggctcactgc 60  
aacctctgcc tgccaggttc aagcgatttt cctgcctcgg cctcctgagt agctgggatt 120  
acagggtgtgt gccaccacac ccggctaatt tttgtatttt tagtagagac ggggtttcac 180  
catgttggtc aggctggctc caaactcccg acctcgtgat ccgcccgcct tggccttcca 240  
aagtgcaggga attacaggga tgagccactg tgccggggcca aagcagaatt taaatcagca 300  
attgggatac aatattagt cagataattt acactagagt catatttata tctgncacag 360  
tattaaagta taccacatat gtatggactg ntagaagaaa ttcatttcat ttttaaaagc 420  
aatggattgg ttaataaggt taagttcttt aacactttct ttaaaaattcc tggcaagggt 480  
aacttccatt ggcnttttta aatngaaaaa ccnaaccnaa ccaaacttaa accccaagcc 540  
acnccccaaa atggttaagtt t 561

<210> 10080  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10080  
ggtgacagag tctcgctttg tcgcccaggc tggagtgcag tgggtgcaatc tcggctcact 60  
gcaacctctg cctcctgagt tcaagcaatt ctcttgccct agcctcccca gtagctggga 120  
ctacaggcgc ccgccaccat gccagctaa ttttttgtat tttgggtggag acgggggttc 180  
atcgtgttgc ctaggctggg ctcaagctcc tgagctcagg caatctgccc acctcggcct 240  
cccaaagtgc taggattaca ggcatgagcc accatgcccg ggccccttct ctttgatttt 300  
aataacactt agagtaatgt agtgttcttg atccagaaga ttacttctgg aacaattagt 360  
gaccaacaac cacccttata cttgacataa aactgagcag gtttagggac aganggaant 420  
gtgaagttca ccagctnttt cacactgngc ttataagaac caaatctggc caatgtgacc 480  
tgacacactt acctgggcaa ggatcttatn aagangnttc cagaataact tcccgaact 540  
tntntgggac tggtaa 556

<210> 10081  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 10081  
aaatttgagt cagggtctca ctctgtggcc caggctggag tgcaatgggt cgatcacggc 60  
tcaactgcagc cttgactttc tgggttcaag gagtcctcct gottcaacct cccaagtggc 120  
taggaccaca ggcgtgcaac accacaccca gctaccact catttttttg ttgaatgaac 180  
agcttaaat cttgttctga cccaagagcc tttgcactgc ctcttcctcc tgcctgctta 240  
tccccaggt atccacctgt tccctccctc atttcttca attttatttt tttctgcaat 300

ggggcctttc	ctgactacca	cttaaaattg	cttgcttggg	tacaatggct	cacgcctgta	360
atcccagcac	tttgggaagg	tgaagtgggt	ggatcacctg	aggncangan	ttnnanacca	420
n						421

<210> 10082

<211> 525

<212> DNA

<213> Homo sapiens

<400> 10082

acggtaggta	ataagattta	ctgaaaacgt	ctcggccaca	ttcagtactg	gtttggtgga	60
tacatcagaa	ggaggttgca	taacattagg	caggtggagg	ggctgagagg	aagagatgtg	120
ggcacctgtg	tgccagtgtg	tccgtgctgg	gggacgcctg	tccaggtggt	gagtggaaacg	180
gtgtgtgtgt	gtgtctgtgt	gcgcgtgtta	acaagaaaaa	cgaaccagaa	aaggaagtgc	240
attttatccc	actgcacatt	gcaaaagtct	cacgccaaaa	aagctagact	ttcctctatg	300
tatggcatca	aaagggagta	aaaaatgatt	ggatcaccca	gattataaat	aagggtatgtt	360
gnttctcaaa	aatccttatt	aaaacattaa	atatcanctc	ttttgggggg	agaaatacat	420
tcatttcagg	gagacctcgg	aagaatggnc	catncttttg	nttntacccc	aaccagtggg	480
ggaaggggaa	ncccaaaaag	ggcccaangg	ggtccctcca	gttga		525

<210> 10083

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10083

acaattgtta	acatggcaac	ctttaaagcc	agctcttaaa	taccaagacc	ttgaacttga	60
tgcattccac	atttctcctc	tgcccagaag	gcagatggga	gaataattca	ccaaagttta	120
gacacaggta	aattgagggg	agggtttctt	ttttcttttt	gtttttttga	gccaaagtcac	180
gctcctgaaa	aaaaatgctt	actgaggaaa	ataaacacct	cgagctcaag	cagctctcag	240
gagtatgtag	tccctgccct	gaggccactt	atcatctagt	ttgagaagag	acaggtacaa	300
aaatagctca	aacatcaggt	gccagcagtt	caggggaggg	atctgaaaag	gcagcaaggc	360
actaaatcag	caccccaacc	tggttttttg	tttgncttct	taaacctgcc	agcaccaact	420
cttcatcacc	ttgcaaattc	aagaccatct	ttggaaaaga	cagttaggac	tgacttgcaa	480
tggctttggg	aatcttacc	accccatgg	ntggttttct	anggcctngg	gncaanggct	540
cctttaaaaa	gg					552

<210> 10084

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10084

gttattatag	gcatttatta	ctaactatag	tccttcttgg	aaggaacacc	caaaccaata	60
cttataaagt	acatgtaatt	tatagtaaca	tattttacta	tatacatatg	gaaaaaatca	120
tattctcaca	gaagagctga	acagacattc	accaggatac	gactgttggg	ccagctgctg	180
gagatggacc	tgctacccct	cagcagcctc	cccaccacaa	gacaagtgat	ctcaatgtcc	240
ccaaacctgt	gggaccctgt	tctacacacc	tcatttttgt	tccggcggtt	catcctcctt	300

gtgtgattgt	actgattttc	atgagacaca	agttacttct	ttacatccat	attcccaaag	360
cagggttaca	tggtaggaaa	gaaaggaaat	tggagggtact	aagctcattg	ggncctcctc	420
agcttttacc	agcatcctaat	gcttcactgn	tttttttcca	ttggagactt	taatggcact	480
tggataaata	catggagggtg	gtttttttcct	caaaatggan	taccccaatt	aagactggga	540
agggcccaaa	aaa					553

<210> 10085

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10085

gtagagatgg	ggtttagcca	tggtgcccag	gctgggtctca	aactccttagg	ctcaaacgac	60
ccaccacac	tggcctccca	aagtgcctggg	attacaggca	tgaaccattg	ngcctggtct	120
tggtaaaat	tttgaacttg	cagtttagcc	aatcctgaac	tgtaaatgta	agaacaacag	180
atgtggttta	ttactgngca	taccgcgcct	tgttcagcca	gaagatattc	cagggcaa	240
ctgttatcca	agacagcatt	ggctaggagg	tgcaggagg	cttgatgtcc	ttttatggct	300
ctgcctgtac	tagttgccag	tgtttcaagg	gtttgaaagt	ttctcaaagc	tggctgacag	360
tatgcaaaag	ccattccaag	gggctatttc	aacttctggc	caaaatagnc	ctattggctt	420
ttagaattta	ccccatgnn	gaaattatga	actggntatt	ctactgggac	cttaaagtnc	480
ctaaacaagg	catttcctta	tgggggtggac	catnttccc	cccaangggc	ncccttttgg	540
caagtaa						549

<210> 10086

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10086

ggtgttttta	gtagagattg	ggtttcacca	tggtggccag	gctgggtctcg	aactcgtgac	60
ctcagggtgat	tcaccacatt	cagcctccca	aagttttggg	attacaggcg	tgagcaacca	120
cgcccgccct	gcctgcttag	tttctggctg	tcacttagct	ttgcaaggct	gggagcagca	180
ctccaggagg	cagaggaagg	gaacacatgt	tcagactggg	gaataccata	ctaagtgtac	240
agacatacat	ttggacactg	tcctgaaaga	catcatacaa	acatggaagc	tcttgaacaa	300
aggtcctccc	ttgccccaac	ccccaggcag	ccctcacgtc	cttccagtct	ttgttttgc	360
gcctgatgga	gaagcagaga	tttggggcgt	ggggctggag	gaacagccag	tgccacttgt	420
tcctctgaag	caagtggnc	taaaaccacc	ttntggcctt	cccagctact	tgggcatgct	480
tntaccaagg	tgtnaaggct	naatggggccc	ggggccactt	aattgggcaa	gggttgnnt	540
tanggaaaa						549

<210> 10087

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10087

caatggcaac	acagatttat	tgggagaaaag	acctgcggag	aggggggtacc	agctagtgcc	60
agagccccct	tcccgcttac	aggctggacc	agttacagtc	cggggcagga	gaggctctggg	120



attgttgtga	aaatggggtg	ggggcgggtg	gtttggctgc	tgataatgaa	ggaatttagt	180
gcagccaggg	gttaggcctg	ggacctgcct	gacaggatgt	ttctcacagc	tcaggccctg	240
gtggaatttt	ccactctgac	cagtttghta	aatggtaggg	gtctgcaaaa	tagtgcagtt	300
tgggctaaca	ttcttatttc	ttacttttagt	ataaaaagga	aaaagggccg	tcgttgatca	360
tctggctgct	tcctgctgga	tagggggcct	tgtgattagg	gcctgggttc	tggagcttcc	420
gaatggtttc	ctcgaagctt	tgggtattaaa	cctggcaaaa	ggtgaaatat	attatcaatg	480
ggttttgcat	gcttgccctg	attaacaan	ttaacccttt	gggaaatgaa	accgggatcc	540
aaggttaaat	t					551

<210> 10088

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10088

caaagctacc	ctggaacggt	aatacaataa	aactagtacc	tgtgcataaa	ttgttaactg	60
acctgccag	catgggtacc	taactggggt	ttagggtagg	gggacagagg	gctttttaag	120
attggtggtg	ggggatgggg	attaatacag	acagctcggg	taggggccac	tcctgggttc	180
agggtgcagg	ttgctggact	tggagcatgg	gatgaagaga	tgttcagaga	tagagatcat	240
taggttgctg	aactccccta	gggcagtgga	gtgaaaaagc	tgtagcanc	aaggcagggt	300
gtagatccct	ggaggctgac	ggcttggggt	ggggccacag	tgagcccagc	ccctgatggc	360
tctagttctt	gcccttgtag	agctcanaaa	tggaggtggc	tcctgtgcct	tgtccaacaa	420
tggttccctt	gaaaaagaac	ccataaggat	cccccaatcc	accccaatgn	ggttcttggg	480
ggtaatggag	ataatctccc	cacagtgggg	tgancctggg	gtnaagggaa	cctggcttct	540
tggaatggna	acc					553

<210> 10089

<211> 490

<212> DNA

<213> Homo sapiens

<400> 10089

gagacaaggc	ctggctctgt	cgcccaggct	ggagtgcagt	ggcgtgatct	cagcttactg	60
aaacctctgc	ctcctgggct	ccagccatcc	cccaacctca	gcctcccaag	tagctgagag	120
tacaggcatg	caaccacacc	tggctaattt	ttgtattttt	gtagagatgg	ggttttgcca	180
tgatgccag	gctggtctca	agctcctgag	ctcaagtgat	cctctcgctt	tggcttccca	240
aactgcttgg	attacaggca	tgtgccacca	catccggcct	aaaagttttt	aagagtaata	300
agcaaaggta	gatgtgtatg	tgtgtgatac	tgtcatgggt	acatttgtcc	aaacctatag	360
aatgtgccaa	gagtgaacac	tgtggactct	ggttgatggg	gatggatcaa	tgcagtttca	420
acaactgtga	cacatncacc	cctntggagc	gagangtctg	cantggggan	gctatatggg	480
natngggggg						490

<210> 10090

<211> 470

<212> DNA

<213> Homo sapiens

<400> 10090

09629469.072800

ataaataaga	aatagggttt	attgagaaag	ttcggcaagc	agagaaacag	aacagacaca	60
caacccctg	ctgttcacag	ctcaggccta	agatggttgt	gttctgtggc	caggcccccct	120
aaggctctgt	gctttcatag	gaactggaga	gcaattgtca	acaagggaaa	ctgaaagaat	180
ggccttcaga	actctggctg	acggcagcct	gttcttttgt	taagctaatt	tagacctttg	240
ttcagctacc	aggagagaaa	attagggtgt	ggagccctgg	tcccaagctc	tggctctaaa	300
acaccatcat	cctgctttac	ctctacaacc	atcccacggn	cctattatat	ggatgagggt	360
aaagaaacac	gtncangcg	ggtcattccc	cttcagtgtc	tatcacctan	ttgagggtac	420
caaacanggc	cacctgcaa	anctaaggac	caggaccagg	ccanccang		470

<210> 10091  
 <211> 509  
 <212> DNA  
 <213> Homo sapiens

<400> 10091						
agttaagaaa	cagaacacct	tttgtttaag	caactaaatt	aacacgtgat	ggttcttggc	60
aagatcccat	ccatgacagc	attcccgtcc	accaatcttt	tccgaaagtc	tggagcttac	120
tggacgtagt	gtaatggcaa	ctcctcccac	taaaaggccc	cgtcaggctg	ggcacagcgg	180
ctcatgcttc	taatcccaac	actttgggag	gccaaagacag	gaggatgctt	gaccccagga	240
gttcaagacc	agtcttggca	atgtagcaag	accccaactc	tataattttt	tttttttttt	300
tgagacggag	tctcgctctg	tctcccaggc	tggagtgcag	tgggtgcgat	ctcggctcac	360
tgcaagctcc	acctcccagg	ttcacaccat	tctcctgcct	cagcctcctg	agtagttggg	420
accacaggcg	cccaccacca	cgcccggnta	cttttttggg	tttttaagta	nagacagggg	480
ttactggggg	tanccnggaa	tggnccttna				509

<210> 10092  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

<400> 10092						
aaagctttta	aatttcagtt	accagctcca	atgaaaaaag	aaatccagtc	tagaacagcc	60
actctgaaag	ccaaaacaaa	aagagctcca	aaaaactgtt	gagcaaagtt	aagtgccttt	120
tcggaagcaa	atctcgggat	ttcgaaagcc	tggcttttgt	tttctctgtg	tgaaaaata	180
ttccagattg	taacatgccg	tcgcttcaag	gagtttttag	cagcttcctt	gatacatgaa	240
aatcttgctc	tctgaaagct	tcagggtgtg	tcttcccaga	attggtttca	ctatgtgtga	300
tgccctcgct	ttcttccttt	gggcttggtt	gttccctcat	cattaggtgt	gagatgtgtt	360
atztatagat	gcttcgactc	ctgggatggc	tctttgaaca	cagccctgcc	atgtcaatgc	420
acagaaaagcc	ccgatttggt	tctgaccggt	cttgataatc	ttaccnggca	cagctttcct	480
anggttaatt	tgcaattaat	taatttagng	acaggncctc	tgggttgcca	acctggctg	539

<210> 10093  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 10093						
ggttttctct	ttgaaagttt	attgttttct	ttaaaaaaa	aaaaaacct	atacctttta	60

09629469.072300

tatattacat	tcacctctca	gaatatatta	tggtaccogt	taacgatgtt	ataaaaaaag	120
accatcacct	gcttgaaatg	gctgcaaatt	taccatgttc	tggcattaaa	gtgatttcaa	180
ctctttggac	aaattgggtg	aacagtaagc	accgagattt	caaattccca	gatgagaaaa	240
aaaaaattaa	tcaggaggaa	atttatattag	taaaaattca	aagctaaaga	aatgtgagaa	300
ggaagccaaa	cccaaaaaac	tgtaaaaaat	acaatcttct	ctccagaatt	aggttaaaaa	360
atacagtcaa	ccccattcta	aaccccatat	ttcttagaaa	agtcacccag	tcctgaacac	420
agggtcttat	acacaaatac	atgtagcttg	atttgcagat	cagcctctgg	gatccgacct	480
tacctggccc	caattagaag	tcaaaaacca	aaatttaggt	aggnaggcag	acctntatta	540
aactcagnat	cccgtnn					557

<210> 10094

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10094

actcttactt	ggttttaata	atacagttag	gatgggttgc	caggtctggc	attgggccta	60
gatgcccagg	catcgtggag	tgccctccgtg	gtcactgggc	acaggccacc	agtcctcca	120
gggcttgctc	tcggcggttg	ccatggacca	gcagcacctc	cttgatccgg	tcctgctgga	180
agcccatgtc	actgaactgc	tcccagaggc	gcaggaaactc	ccctgcctga	ggaagaggag	240
acaggagggg	tgctgggggc	tctgctgggc	ctggcctcaa	ccatggggag	ccccagctcc	300
agtgcctact	gcacctagtc	ccaaaaagct	gtggctaccc	ccaggccacg	tgagcctgat	360
cctggggccgc	acctgccact	tttctgtacc	tgtaggggtga	tgtaggttcc	gacctccctt	420
cctctgccaa	ggaaagaagg	ccccancctg	gccatgggct	ctgcctgact	cttcttccac	480
ttcttccact	nactggcaac	tttntgctgg	ggcaagaagg	ggggcaaaac	cgncaccttg	540
acctggagga	caaaannt					558

<210> 10095

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10095

gtagagacag	ggttttgcca	tggtgtcgtc	caggctgggc	tcgaactcct	aggctcaggc	60
aatcctcctg	cttcagcctc	ccanagtgtc	gggattataa	gcatgagcca	ccatgcctgg	120
cctcagtagg	ggattcttaa	agaagacaca	tatgcagtga	gtggcttgga	ttttgaaaga	180
ggtgtgtgtg	aaggccaggg	gtggtggccc	actccctccc	tgngtgccca	ctttcattca	240
naaccatccc	atttatgtgt	cttttctacc	agtatctcta	caaatcatct	ttccatttag	300
cagcctttcc	tagggggtca	catagccacc	ccnatacata	agaatgaggc	tgnggggtcac	360
agacaagaca	caacaatgta	gcccacatcc	cgataaaaaa	gtgttgggca	agcacangcc	420
ttacactgga	atcagaacaa	ngggggaagg	attcaactta	ctctgggaac	agaccgacnn	480
ggatgaccca	tcttgcatto	cttttttttg	anggananaag	ncntgaggct	tcctttggct	540
ggnaaaaaaa	ttacttgg					558

<210> 10096

<211> 561

<212> DNA

<213> Homo sapiens

09629469.02300

<400> 10096

agtagagacg	gggtttcacc	atgttgggtca	gggctggcct	cgaacccctg	acctcagatg	60
atcagcccac	ctcggcctcc	caaagtgtctg	ggattacagg	agttagccac	cacgcccggg	120
tttttttttt	tttttttttt	taacagacca	aagcgttaag	agtccccaaa	ggagggaagc	180
caccctgcaa	tggaatggca	gaaccaggat	gggtgaacct	gaagtctcag	gtgtcaagac	240
atcggcacac	agacagcttg	gtctctccta	cgcacaagca	catntgtggc	cctgctgcac	300
atatgggcan	agggtggctg	gcaccgtcct	gccttcggca	tgttccaaca	tncccacagg	360
accctatacc	tggaagcccc	tacatcattt	actgggtttt	gtgacaanat	ggagacccaa	420
tagagtittc	taagaggggag	aaagagtcca	cagaacccca	ccctnaattc	agggnctntt	480
ggaccggtcc	taacttgggg	cattgccagg	ccaggggctg	nacccttttt	tcccanagt	540
cctggcacia	gccaaaaccg	t				561

<210> 10097

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10097

caaaaacaagt	gttattttatt	ataaaatcag	nggcttctga	ttagaagaact	tttttttttt	60
aaaccaaaata	ggctcaagaa	gctggctgga	ggttgaattg	gctgacgaac	atcttcttcc	120
tccaccagca	gtttgnggga	cacatcacgt	ttctgccaaag	tgctacagct	gaagcccata	180
ttcatagaag	caccctgaca	gcccttctcc	agcaacttcc	agaaaacaga	acctgagcac	240
tcaaagctgc	atcagcccat	gtggccttgc	tcccaaanaa	gcatntggcn	atttgggcat	300
gggggaacca	aaagtgggca	gggaattctc	cttggctcct	taaaagggca	tgggagccca	360
gggaaaccgt	tgggccccag	tgcagccta	ttgggaagga	nggatnggna	aaaggctgct	420
nggctttttc	cttctnacc	ctatggnaag	ggggactggc	ccttttggttc	ctt	473

<210> 10098

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10098

ganacagggt	ttcactcttg	tcaccagcgc	tggagtgcag	nggcacgac	ttggcttact	60
ggaacctccg	ccttccagg	tcaagcgatt	ctcctgcctc	agcctcccga	gcagctggca	120
ttacaggcgc	ctgccaccac	gccagctaa	tttttgtatt	tttagtanan	acagggtttc	180
accatattgg	ccaggctagt	ctcaaaactc	tgacctcaag	ttatccgccc	accttggcct	240
cccaaagtgc	tgggatcaca	ggcgtgatcc	atngngccc	ggccacgtct	cttcttttca	300
atgtaggatg	tcactcatga	gcatcaattc	ttcactgcat	taaggaaatg	gtgattttag	360
aaagtgcctg	agtatagaat	tgtgagggtg	tggcctatgt	cttangcctt	ggagaaaactc	420
anctagcana	gaanaatgga	naaagngggc	ataacgttat	gattgctcaa	aactaaatgc	480
ngataatatg	accttgaacc	tgggaagcnc	aaaagcc			517

<210> 10099

<211> 556

<212> DNA

<213> Homo sapiens

0962469.62800

<400> 10099

ataacagaaa	aatatttatg	taatgatggc	agctgcaaat	tgattgggat	gttaataaat	60
aaaaaggaac	aagtatcaac	tagctgcaaa	tgaggaagaa	accaacctac	ctgaaaacta	120
caaccaaatt	ctcatggcta	ataagtgatg	gcagtggagac	catggcccta	atggaagtta	180
gggcagcctc	accactgaa	atgttgttta	gttgaggctg	atagcctcag	tgtagataa	240
aaattgtgca	acacctgagc	aacaaatfff	tttttttttt	ttttggaaat	tggtcatgtat	300
tctgcaaaga	cttgttttag	gccagtttta	cccatctgc	ttaaagcaat	gcatagtctg	360
tatcaaccag	aagaacccat	ctctaaaaac	atcaatgttg	atagtcaaag	accactgtgt	420
tagaacccaa	aatcagggct	tggatgatta	cctacattag	acagagcaat	ggtggcacan	480
gcttgagcat	gacaatggct	catatgggtg	acncaaaagt	aaccaattct	nggtgcnttc	540
aggaggaatg	cctgct					556

<210> 10100

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10100

gacagtttca	acatggcttt	actctctctc	tgggcacaag	cgagccatat	gtgcagcatc	60
agcaaggtat	acctttttaca	gacaatagtg	gctctgagcc	aaacacgagc	tcatgtgagt	120
tgttacctaa	tgggcctcat	gtggtgtggt	tacataacga	gcaagggtgt	gtgcttgcac	180
tccaaaccca	ctgagtcag	ctgcaccaga	aggctgcctc	agcctactcc	tgactaaagc	240
acagccattt	cccttacact	acacccctta	ggctgagggc	gtcctccagg	cagggacaca	300
tgcctatatg	gcggagccct	gagtcataa	cccacaacaa	caatacagag	agcaacagct	360
cactactagg	atctcagcta	tgatacttat	gactattagg	gcccattgta	cgccagaacc	420
tagggatgct	caccatctnt	gcaaggggtt	gacagtgang	cttttcagtc	accttaatct	480
nctggaanac	ccttttgaag	gctgggtgta	tggtctgctg	aatgncangg	ataang	536

<210> 10101

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10101

cattttgcaa	atttaatgta	actctgatac	caaaatatga	cagcacacag	aangcaaaca	60
ntaaagcagg	aacagcaaac	agattttttc	atcacatgac	accctcagct	gattggccat	120
aactgccttg	actgctgtgt	ggacaaagat	tccaaggatg	tactttggct	ccatgggaag	180
gactactgca	atttattagc	ggtatctgta	aacatgggga	ataaatctga	aacctcacta	240
gccatacag	aagccacagg	caccaanact	ggcggntcca	ctgccaaaagc	cagcactggt	300
gctcgggtcca	ccaccaaagc	cagcaccagt	gtttggtcca	ccgccgaagc	cagntcctgt	360
gctcgggtcca	ccgctgaagc	cactggtgct	tggtccaactg	caaaagccaa	caccagtgtg	420
tggtccaccg	ttgaagccaa	caatagaact	ggggccacta	ctgaaccccg	tgctggngct	480
gggttcncag	taaagccagt	gcttgggggt	ggaaccctgg	cnaagccaat	ggtgggccta	540
aacctttggg	n					551

<210> 10102

<211> 547

003270.6942960

<212> DNA

<213> Homo sapiens

<400> 10102

```

ggaaacaaac caaaaacttt atttacaaaa gtaaatttta acttgctttt atatgtcata 60
taccgttaat gatgacagca acagatttaa aatacattga ggtttgtgca gctcatttcc 120
ccctagttaa accataaaac ttataaaaca ttgcttttagc ttgatgttt ggtcacgttt 180
gttgtgcana agtcacgttt cagggttaggt tcaccgccag acacggtcac atcaccattg 240
gctngggatt tccaagaagc aaaggagcca atctcagcaa agctcgcaact ggcattttta 300
gctgcttaaa ttgaagagc agttcagcaa agcttngct cccttctagt cctataggtg 360
gcagggtgctg tggagctggc acagagtggg agacgaggaa caggccagca tgctcagctg 420
ngattcctcc aanggtgnc cgctgangta ngcgtgcaca cacattttac ccccgacttg 480
gacccttggg ccagggatta tcaatggggc nctttacaac agggngggaa ttccagttcn 540
taaaaaac                                     547

```

<210> 10103

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10103

```

ccttttactg cccatttatt accgtgcggg ttaaaaaacg ggaaaagagg ccgggctggtg 60
tggctcacc cgtgaatcct aacacttcag gaggctgagg caggcggatc atgaggtaca 120
cgcccaggga agagaaggga cttgtccaaa tgtcactcaa gtacttgggc cataacatta 180
agctttgtaa ttcaccaggt taaatgtgac atcactgttc catccaccct accaacactc 240
caaagaaact caacttcctg ttccctcttg aggaagtaaa acttaccaga taaaaagggg 300
aacgaggtgg tggggggggg ctggccgtcg aggcgggggg ccaccaaacg aggtancagt 360
ggaggggang ctgggggggac canaacgcaa tgtcagngtg tcaggctcat ccttggaac 420
aggcannccg ggataccatg gtgacaggca agggancggn cc 462

```

<210> 10104

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10104

```

gagatggaat tttgctcttg ttgccaggc tggagtgc aa ttgcgcgaac actgcaacct 60
ccacctocca ggttcaaaca attgtcctgc ctcagcctcc cgagtagctg ggattacaga 120
tgcttgccac cacgcccagc taatttttgt attttttagaa gagacggggg ttccacctgt 180
tgaccaggct ggtctcgaac tcctgacctc atgatctgct caccttggcc tcccaaagt 240
ctgggattac aggcattgag cactgcacct ggccatattt ttttttttgg agatagggtc 300
tcaactctgt gccccagctt gaatgcagta gagtgatcat agctcaactgc agcctcaaac 360
tcttgggctc aggtgatcct cccatctcag cctcccgagt agctaggatt acgggcatgc 420
gccaacatcc ctggctagtt tttaaacaat tttttgtana aacangggct tgctatgtgg 480
ccaagctggn cttgnacttc tggactnaag ccatcctgaa ttnggcctnc c 531

```

<210> 10105

<211> 564

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 10105

cagtgtcttc	agtgaagttt	actgtatatt	ataaacagtc	atagaattca	aagacaatca	60
tataaccaac	tcttttggat	ggcttaggat	gtgccaggta	ctgtgctaag	gacaagagat	120
ataaccagat	acaaaccagt	ccccatcctc	aatcattact	tattcactca	acaaatattt	180
ttgagtactt	accctgcacc	aggcactagg	gatataacag	ataaaaatta	agtctctcgc	240
ttcatgaagc	tttcattctg	atagagggag	acaggcaata	agccaaataa	atggtttatt	300
ccaccacccc	ttcaagtctt	cactcaaattg	ttcctttttc	aatgagacta	tataaccaac	360
gtatttaaaa	tttcaaccac	catcctgcat	tcactgcttt	tcactcttgc	aaggngagta	420
atatgtgtta	atttgactga	ccacaaggng	cccagatact	tggncaaaaca	ttatgcctgg	480
gngngctgtg	aancatggnt	ttggatgaga	ttaacatttg	gaatcagtcc	cctggataaa	540
gcttattttt	ttttcccagg	ggna				564

<210> 10106

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10106

gagatggggt	cccgtgtgt	tgcccagggt	ggagtgcagt	ggtgcgatct	tggctcactg	60
caacctccgc	ctcacgggtt	caaggattct	tctgcctcag	cctcctgagt	agctgggact	120
acaggtgcgc	accaccacac	ccagctaatt	ttttttgtat	tttttagtaga	gacagggttt	180
caccatattg	gccaggctgg	tctccaactc	ctgacctcat	gatccgcccc	cctcgacctc	240
ccaaagtgtc	gggattacag	gcatgagcca	ccacacccgg	caatttttgt	attttttgta	300
gagacggggg	tcttgctatg	ttgtccgggc	tggtcttaaa	ctcctgacct	cgagcagtcc	360
tcccaccttg	gcctcccaaa	gtgctgggat	tatagacatg	aggcacggag	cctggctctg	420
tctccctctt	taatgagtaa	attttacaaa	ttgccaacct	accactagtt	agtacacagt	480
gactgtagt	gtcanaagct	taaacgtgta	tctgggcata	cgggttcttc	tgntttctgg	540
ggagcacttt	cctn					554

<210> 10107

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10107

gagatggagt	ctcgccctgt	tgcccagggt	ggagtgcagt	ggcacaatct	cggctcactg	60
caacctccac	ctcctgggtt	caagcgattc	tcctgcctta	gcctcccag	tagcttggat	120
tacaggcaac	cgcaccacg	cccgctaatt	ttctgtattt	ttagtagaga	cagggtttca	180
ccatattggc	caggctggtc	tcgaactcct	gaccttatga	tcccgccaca	gcctcccaaa	240
gtgttgggat	tacaggcatg	agccactgca	ccggcgctgt	gagttactta	tttgtttcgt	300
gtattatctg	tctcatcccc	actagaaagt	cagctccatg	aaggcagcaa	tgtttgtcta	360
ctttgttccc	tgttgtctcc	aaagtgtcta	gaacagagot	ttgggcctgg	gtggccctca	420
caaacagtaa	cngaataaat	gaacncagac	aagganaaan	ggctntgaac	caaacttaca	480
ggaggcacac	ttcagttaaa	actgggtcaat	ggntttcact	tgcacttgaa	gtaaaggan	539

<210> 10108  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 10108  
gagacagagt cttgctctgt tgcccaggct ggggtgcaat ggcgcgatct cagctcactg 60  
caacctccac ctcttggtt caagtgatt tcctgcctca gcctccctgg gattacaggt 120  
gcacgccacc acaccagct aatttttgca ttttagtag agatgggatt tcaccataat 180  
ggccaggctg gtctcgaact cctgacctca agtgatccac ctgcctcggc ctcccaaagt 240  
gctgggatta caggcatgag ccactgcact cggcctccaa cattccacta ttccagataa 300  
tgagaggctt tgagtctaca gggcattctg gggttacttc tatctctttg agcctatgac 360  
tgtagaatgt aggatgtgag gttctagaat ctttttatga agccngagga atgncccttt 420  
aactttccat ggccctcaag tgtgtgggct tctgntgcaa ggnctcatgt cttaaagttag 480  
ggctaaagtc aaggactcat gggctatggc aaggcaaaaa nctnaagccg aattaactt 539

<210> 10109  
<211> 439  
<212> DNA  
<213> Homo sapiens

<400> 10109  
aaacagcact tgagtatata attagttcaa cgtaaaacca tccatctngg ccttggcgag 60  
gagccctgcc ttctccatgc cccggctgta ggctctgctg ccttgaatat ccacctccca 120  
caggtgctgg tcgtaggctg gatgtgttga atttctccat gatggggctc actgcaccca 180  
ctgtggccag gagagcagaa caactagtct ctctccacc atccagaaca gtgcctcttg 240  
cagagtctcc tcgggaaact taccaagtct gatggtaaca ggggcatggg accatcctaa 300  
ctgggaagac aaaaaggctg agaccttccc agagtcacct tgggagttag catgggaaca 360  
tggtgtaaca ccaagacaga gccaggctgg actgcagtag tgcaacctng gccactgna 420  
cctncgcctn ccgnttnan 439

<210> 10110  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 10110  
agctcatctg ctatggttag tgttagtgtg ctttatgtgt gacccaagac aattcttctt 60  
ttccaaggt gccacagga agccaaaaga ttggacaccc tttcttagat catcccatcc 120  
agtaggttc aaacttttat ttttacagct aaattcctca agcagatggg ctctgtgtg 180  
gaatcacaat gatgctggtt aagattcact gaatgcttgc tatatatcag gctctgtttg 240  
gagcccagca tatatatata tataatctca gttaatccca cagtacctga tgaggagggt 300  
actgctgttt gtcccattta tttttatttt atttatttta ttttattttt tttgagatgg 360  
agtttctact ttgttgccca ggctgggggt caatggcgca atctcggctc accacaacct 420  
ccgcctccca ggttcaagca attctcctgc ctacgccttc caagtagctg ggattacagg 480  
cacgcaccac catgcccggg taatttggtg tcttttttan tagaaaatgg ggttctccat 540  
ggttggtc 548

009270" 69462960



<210> 10111  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 10111  
gtttttggtg tttttaattg tttttgttaa tgtaaaaaca gaaccatcac agccgctcag 60  
ctctataacc catccagccc aagactgttc tagtggtgaa accaagagta gacaggcttt 120  
cctacctcag tgacctcaaa acacaaggac atctccatag ggcatcaaca tgcattctgtc 180  
atccaagaat ctaagaactt cctgatcctt ccacattttc tatcaataat attgccttct 240  
gaggttatgg attccaggctc ttctatgaaa taggtaaagc ttcccttcgc gttccaagaa 300  
atatagtttg cgaagggaac tggaaaacgt gactctaggc ctccagccact tcctctgtta 360  
ccctgtgcaa gttgtagaac aatccacgtt ctccagctc cccttcttca agttgtggag 420  
ttcttcaagg tggacagatc acacctcagg aagtcattcc ttggnagccc actagaatta 480  
tcataaangc agtcgggctt ggtagttttc ttgnnccag catcactgng ccaccacnta 540  
agtctn 546

<210> 10112  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 10112  
gttttttcaa aactgctttt attttagtagca attcatgttc attcaacaaa cagtgtattga 60  
ttatatgaga gcacctgaca ccagggtactg acgcttatga gcaagacacc ttgtcaacca 120  
tagggagact ggatgaggat ttatataact cagggtgtatg accaagtctc ccttgtctga 180  
caggccttat tatgaatgag tgtggttagtg agtaagctct aagacagccc ccagggatcc 240  
cagtctcctg gtgctcacac ccttgagagt tcctctgctc ctgagtgtgg atgaaacctg 300  
tgacttcctt ctaaccatca gaatccagca aagaccgagg gatgtcactt ccatgattac 360  
actgcacaag gttgtaactg ctgtcttgtt agactctcca ctgccttctt ggtttacatg 420  
ctttgatgaa ggaagtggcc atgttganga ngttcacgtg gaaacaaact gaaggtggnc 480  
ttcacagatg gacagtncca actaagggcc tcaatccatc ncttggangg gaaccaaact 540  
ccacaacct 549

<210> 10113  
<211> 466  
<212> DNA  
<213> Homo sapiens

<400> 10113  
agatcgaatt tcactctgtg acccaggctg gaatgcactg gcacgaattc agctccctgc 60  
agcatggacc tcccaggctc aagtgtatctt cccacctaaag actactgagt agctaggacc 120  
acagggtgtg cccaccatgc ctggctaattg attttttttt tttttttgct agacacaggg 180  
totcaacatg ttgcccaggc tggctcttgaa ctccctgggt caagcgatcc tcccacctca 240  
gcctcccaaa gtgctgttat aagcatgtgc caccaccac totggccttg atactctttt 300  
ggtaaaaaat atactagtat tagcattctg tggccaggaa tgggtggctca catccatctg 360  
taatcccagc attttgggac gccaaaggccg gaggattgct tgagcccagg agtttgagac 420  
cagtttgagc aatatggcac actgtttctn cnaaaantnn attntn 466

<210> 10114  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 10114  
catctttgaa gtccttttatt cccagcagtt cacatcagtt actcattgag ctgggggttcg 60  
tcatattaac caagaattca ttcatcttct ttttgatatt gtaatcttgt cctcatctcc 120  
acaactgagt tggggcctga ggggtttaag agttctcact ccatcacagg aggcaagggg 180  
tacccttggt aaccagactt caactcctgg aagtcttggt cagttcatag gcaaatactt 240  
ttgcaagttt agtatgagac agcccaacgg ttaaataaat aagacacagt gccatgggtt 300  
taggcatttg gagagggaaa aggcacatta cacagattcc cctggagaaa atacaggcca 360  
ttctcatctt ctcaacatgc attttccac tottcagcga cttttaatct tatccccctg 420  
tctatgagaa accataaccc acgtgctact gaatacattt ttattttccc ttcatgacat 480  
anacttgggt tccagtatat ttttaatttc tcntatgnc tacaagacat ncaantttgg 540  
tcagggc 547

<210> 10115  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 10115  
agagaaagtc tggaggttta ctcaacaacg ttcacaatca caattgtaca tggtaaataca 60  
gtctttcaca aaggcttatt tttccaggca ggaggagagg ctggtggtct tgagcttttg 120  
gcctggaatt ccagtctgaa ttttcaaata ttccctgcct ccaacccctt tgggatccca 180  
gtcttcaagc caataacaga gcaggagtct gaccctgttc tgttgccctg catggctgaa 240  
tcaaagccat tctggaagca gatgttaagg tgaacttgct acttggtatg taggtccgac 300  
tcccatccca gaggtggcag tgggccttgg ctcaagatca agtttgaact aaaatattac 360  
ttggattttt cacaagaggt gtccgttgaa agcaataagg aattccagaa cagaactgca 420  
cttctgtgcc ctctctcaca cttacaaagc ttcagaaaac attaaaaatg cattacctct 480  
aggaattcna aagatcacco aactgtncaa actagatata gctgaagcag aaactctgan 540  
tcctcagtac tac 553

<210> 10116  
<211> 578  
<212> DNA  
<213> Homo sapiens

<400> 10116  
cttttttttt tttttgcctc agagttttct aagctttctg actttgatca acagtctacc 60  
aaggatatac tttaaaattt tacagtaatc aatatcataa cagcagctaa cagtacactg 120  
ggtgaggatg gtacttaaat aattatttat tgagttgott acagaagaga ggtctcccaa 180  
gtcccaaata aacttcacaa atatttttatt agtacttaca atatacaaaa acctttttct 240  
aagctctgcc ctacagatta ataaaaagga gcttaaaatg aagggaagga gagagaaaaa 300  
gacaaaagat taatacacia gttatggtac ttctaagcag gaaagaagct gcttaacttg 360  
gttgggatgg gagaggggtg gtttcaagcc agaagctgaa cagcatgttg agatgctaaa 420

09629469.0.2300

ataaggaaga	tattccagaa	agaggacagg	cacagaatct	ccacgtgaaa	tttcctgtag	480
actagtaaga	aaatcaagt	agatcaacag	gagaaagatn	taagaagaaa	actccanggc	540
caggcacacg	gntcatgcct	gnaatccagc	ctttingga			578

<210> 10117  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<400> 10117						
ccattaatct	ttctggagaa	cctagatcct	aagtcgaaaa	acctactgaa	gtatatcaca	60
acctgtaagt	aggtacagat	gtctgaggcc	tatttagaac	aacagtgtta	gaaaggcgct	120
tccttacctg	ttagacaaag	gcgacttccg	gccaaaccca	attgccccca	ggatcccaga	180
gctgagtctc	tcctcagcca	cgaggttctg	cctgctctga	accaagagca	gaattcgaat	240
gacagattct	gtcaggacgg	agtcattctg	ctctgtctga	atgagggaga	gctgaaggac	300
ttgggtgccac	cacaaaaaca	gctttgcctc	ttcctccacg	gagcttgggt	acacctgttc	360
cagccacttg	cttaagatga	gcagcacttt	catttcattc	cttaaagtct	gttcgctgtt	420
taaacactga	agcaagtaga	cgtaaagagt	caagtaactg	cccaagggtga	ggcactcctg	480
caggaaactct	tccatggtga	gctcgggaac	ctgaagggat	ccagaatggg	tccccatcct	540
gaatctgatg	gagagggcnt					560

<210> 10118  
 <211> 569  
 <212> DNA  
 <213> Homo sapiens

<400> 10118						
gagacggagt	ctcgcctctgt	cacccaggct	gggatgcagt	ggcgcaatct	cggtcacccg	60
caagctccac	ctcccgggtt	ctcgccattc	tcctgcctca	gcctcctgag	tagctgggac	120
tacaggctcc	tgccaccacg	cccggctaatt	tttttgtgtt	tttagtagag	atagggtttc	180
accatgttag	ccaggatggt	ctcaatctcc	tgacctcgtg	atcggccac	ctcggcctcc	240
caaagtgtg	ggattacagg	cgtgagccac	cgtgcacggc	caattatttt	atttttcaaa	300
cctaagagga	gctcccaata	tgaaagtatt	gtcagcaagt	tttctcataa	aatgagaaat	360
cttgtaaatt	aaacaaatca	caaattggcc	tgctttgcac	atccagagtt	tcatgacctc	420
tagctaataa	agatgcccac	gtttgctcag	gtcaccatgt	gttgggctcc	tggctgggca	480
tttcangcac	atccatgcta	tcatcatccc	tattcttcaa	gtgaaggata	cttggggctc	540
anaanagggt	cggngacttg	gctaangnc				569

<210> 10119  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 10119						
gaaattttta	agctgggtgt	ccagggcaga	catcacatgt	tggcagggtc	tgtgatgcc	60
cctgagccat	aaaaccagca	aattttttat	tagtgatttt	caaaagggga	gggagtgtcc	120
aaatagggtg	tgggtcacag	agatcccatg	cttcacaagg	taataagatt	tcacagggtg	180
aatggaggca	gggcgagatc	acaggaccac	aggactgggg	tgaaattaaa	attgctaatt	240

00629469.072800

aagtttcggg	catgcattgn	cattgataac	atottatcag	gagacagggt	ttgagagcan	300
acaactggtc	tgacccaaat	ttattaggca	ggaatttcct	cgtcctaata	agcctgggag	360
cactctgaga	aactggggct	tatttcatcc	ccacagntgn	gaccataaaa	gacagntgcc	420
ctgaancanc	cntttna					437

<210> 10120  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 10120						
cattttactg	catttngctt	tattgcgctc	tgcanatagt	acatttttta	caaagngatt	60
tgnggaaacc	ctgcagcgag	caagtctatt	agcacatttt	tccaatagta	tgngctcact	120
tcatgtctct	gcgtcacatt	ctggtaattc	ttacaatatt	tcaaactttt	tcattatcat	180
catactctgt	atgatgatct	gatcagngat	ctttgacatt	actattgtaa	tagttttgga	240
caccacaaac	catgcccata	taagacagca	aacttaatta	ataaatgttg	tacttgttct	300
aaccgctcca	tcaacaggcc	atttccctgn	ctctctccct	ctcttcaggc	ctccatttcc	360
ctaagacaca	atattgaaat	taggccaatt	aataaccttt	tgatagcctc	taagtgttca	420
actgaaagag	ttacaggatc	tcacacttta	aagcaaaagc	tagaaacgat	taaagctttg	480
agaaaaaggc	atgccaaaaa	tggagatagg	ccaaaagngg	agctcttttg	accaattagc	540
caagtgggaa	aagg					554

<210> 10121  
 <211> 562  
 <212> DNA  
 <213> Homo sapiens

<400> 10121						
gaggactgca	aggcacaact	gtgcagacag	gcagagaagc	ctcagcacct	gtgggaaagg	60
aacgaatcca	tttctgtctg	ctcattttccc	acccatgagt	gtggacagcc	ttcctgtccc	120
tggagtgtcc	aggcctgcct	ggactgagtc	tgtccctctc	cctccccttg	caaaggctga	180
gagtgttctg	gatgtggctc	tgaagaagt	ccaaggtcta	tcagggtggg	ccaccacagc	240
cctagcccag	gatgtccctc	acctgtgtcc	attccccag	caaagtcctc	atcataggag	300
tcatcagtgg	agtcctcgcc	atccaccgaa	gaccatgctc	ggagcttggc	ttccgcgatg	360
gcaaactgct	cagccactcc	tgtcgcaggg	acagaatgca	taagcagaga	aggtgagtta	420
agtctagggc	tcagcttgaa	gacaggagag	aggagaaaca	gggtatggga	agactccaac	480
ccccatgtca	naccgagga	gataaagaaa	gcaccctggc	cgggtgtggtg	gcttaagcct	540
ggaancccag	cactttngga	ag				562

<210> 10122  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 10122						
atcattttat	gaactttaac	catagcaa	gggtttttac	ggnagtcata	aatcaacat	60
taccacatat	acaaaggaca	agaccccagt	ttggcataca	aaaataccat	atattaaaat	120
tgggttcatt	ggaaaactca	ggactggcta	aaacaccatc	tataacagag	agagcaagca	180

009270.69462960

agaatgcttt	taagacattc	agattttataa	acagcagcgtt	gatatccctt	ttacgaagtc	240
aatatattggc	aacattttgga	caatatatttc	tacacagccc	agcagctcat	ttatctgnag	300
ggctattttgg	cccttaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aagcncctaa	aataaataat	360
ccnnataatt	gnaaatgaaa	cncatn				386

<210> 10123  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 10123						
gggatggagt	cttgctgttg	cccaggctgg	agtgcagtgg	cacaatctcc	gcttactgca	60
acctccacct	cccaggttca	agcagttctc	ctgcctcaga	ctcccaagta	cctgggatta	120
caggtgtgtg	ccaccacact	cagctaattg	tttttttatt	tatttttgag	atggagtgtc	180
gctctcttgc	ccaggctgga	gtgcagtggc	gccatctcgg	ctgactgcaa	gctctgcctc	240
ctgggttcat	gccattctcc	tgctcagccc	tcctgagtag	ctgggactac	aggtgccgcg	300
cgccatgccc	ggcttttttt	attttttttt	tttttttttt	tgtagttttg	gtaganacgg	360
ggtttcaccg	tgtagcccg	gatggctctg	atctcctgac	ctcatgacct	catgacctgt	420
ccgcctcggc	ctcccaaagt	gctaggatta	caggcatgag	ccactgtgcc	cggcttggat	480
tggattttag	caganacggg	gtttcactat	gttggccaag	ctggctcaaa	ctggtgactc	540
aaagaa						546

<210> 10124  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 10124						
gtaaatccaa	actacaccta	gaaaactgct	ttctgaaaca	ttccttagtc	tgtggctcac	60
ctaataatcc	tactcaacc	ttatcaggag	gtaaggattc	tgtctgaact	caggatccat	120
ttggatcggg	ggcctaccta	tgggcaatga	gaggaatcat	attaactgtc	actgtccatc	180
ctctgagctc	ttgtagtttg	tagtaaaata	catactgtcc	catataaaaa	atgagaattg	240
tgttacccta	aatgtcagat	aatttggtgt	ttcccagctc	tccagctcta	aagaatctct	300
gctgggtatc	cctttatgtc	tggaaggaga	ctgtcagctt	ctggatatctg	agacctgtgt	360
gccctataac	atctagttat	ggctatcgtt	cttaactagt	ttagggatac	ctttctgtag	420
gaattaagag	taaacacaga	tcttcagagg	caagagtttt	agaacttatt	gaagactttt	480
ggcatatgga	aacttcattc	aacaaagagt	gccccttaaa	aaaaatctct	actggcattg	540
ggtatgggga	tctgcc					556

<210> 10125  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

<400> 10125						
gagactgagt	ctcactctgt	cacccaggct	ggagtgcagt	agtgcaatct	tggtttacag	60
aaacttccgc	ctcctgagtt	caagcaattt	tcctgtcgca	gcctcctgag	tagttgggat	120
tacaggcacc	tgccaccatg	cccggctaatt	ttttgtattt	ttagganaga	tagggtttcg	180

09629469.072800

ccatgtttggc	caggctggtc	ttgaattcct	gacctcaggt	gatccactca	cctcggcctc	240
ccaaagtgtc	gggattatag	gtgtgagcca	ccttgtccgg	cccaaactga	cattttatag	300
ggattttttca	tccttaaagn	gatctactca	gtcattttct	tccaaatctg	nattttacag	360
cacacttttaa	actggtgccg	cagagttttt	gagtggatgat	ggcagctgcc	ctctatgtct	420
gtggtgtgcc	ggccccctcat	gctggggaaa	gaggggacgt	gaccctaccc	ttacagcagg	480
ctggcctcct	ttctntncca	aactggcggc	cctgntctgg	gctaactagc	ccaatcctag	540
cctn						544

<210> 10126

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10126

gagatggagt	ttcactcttg	ttgcccaggc	tggagtgcaa	tggcacgatt	toggctcact	60
gcaacctctg	cctccccggt	tcaagcgatt	ctcctgcctc	agcctcccca	gtagctggaa	120
ttacaggcgt	ccaccaccat	gcccagctaa	ttttttgtat	ttctagtaga	gatggggttc	180
caccatattg	gccaggctgg	tctcaaaactc	ctgacctcag	gtgatccact	cgccttggcc	240
tcccaaagtg	ctgggattac	aggcgtgagc	caccgccccct	ggccaaggcc	ctactttcta	300
aaagaggaaa	actgagacca	aggaagggtta	atgagcacat	ctgttttctc	actcaaggcc	360
agcgggtgaga	aacggcagag	cggggcacccg	gtaccttggc	ttcaggcaag	tcaccagca	420
cctctgggct	tcatactccg	tttgaaaaat	goggatgaca	agaacatccc	ccatccagcg	480
gtcccactct	ggngaattta	ttctaaaagg	gaaaatccaa	caggnttttg	tctggggatg	540
agtcacgan	gcttnatta					559

<210> 10127

<211> 572

<212> DNA

<213> Homo sapiens

<400> 10127

catgaagacc	agttttat	acatgcttgc	tttcacatto	tttactggga	atttaaggcc	60
ttttttcagc	cttaacttgt	ataccaacct	caaggatttt	gtttgataca	gaaaaggata	120
gggctgggcc	cttctgcca	ggactgataa	cctgcctgcc	aaaagggaaga	gggaatgaaa	180
gccttttgtc	cttctaggcc	ccttacagta	cctcaaaatc	taaaggcctt	aaaggggaaa	240
aaaaccgtat	ctgttctttc	tccttatctc	ctacccttct	ctttaagcat	attgaagatg	300
gacttttttc	caaatgttta	tttgtaggaa	gaggtgatga	gogcaggcca	gcagctgaga	360
acttacagct	ttgatgcacc	aggaactgta	ttcaagctga	gggcaaaaagc	ctcctaggga	420
gggagccagg	tccaccaagg	ccagagacag	acagggcgag	actgtggaag	gccagggaga	480
tgctgcctgg	taaatgctca	gctggcctac	tgggcaagtc	ctctgggggt	tctagagctg	540
atnggaanaa	ggagtcattt	tgatagtccc	gn			572

<210> 10128

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10128

09629469.02300

gagagtctcg	ctctgttgcc	caggctggag	tgcagtggcg	cgatcatggc	tcaactgcaac	60
ctccgacccc	ggcgttcaag	caattctcct	gcctcagcct	ccctagtagt	tgggattaca	120
ggcatgcgct	accaagccca	gctaattttt	gtgttattag	tagagagggt	gtttcaccat	180
gttgccagg	ttggtctcga	attcctgacc	tcaagtgate	cgctcgctcg	cctctctacc	240
ttccaaaatt	ctggaattac	aggtgtgagc	caccacgccc	ggccagggat	gtggttttat	300
aaactatgaa	ctaactctcc	atgctatgtt	gttcttggtt	attcatttct	ctcatagata	360
attaaaaaca	aaaaacaaga	aaacaaaatc	caacaagcag	gcataagatt	atatgggagc	420
tttattaact	aaatgcccta	ggttatattc	aaagcagaat	cacccagcac	tcctcaggag	480
actgcancat	ggggtaaaat	tgggtgnact	ttgaggacat	tttgatatc	ctaataaaac	540
atggaccttc	ctggggttct	taangc				566

<210> 10129

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10129

ctgagacaga	gtcttgcctt	gttgcccagg	ctggagtga	gtggcacgat	ctcggctcac	60
tgaacctct	gcctcccggg	tttaagtgat	tctcctgcct	cagcctgtgg	agtagttggg	120
attacaggcg	cataccacca	tgccagcta	atctttgaat	ttttagtaga	gatgggggtt	180
catcatgta	gccaggctgg	tctcgaactc	ctgacctcat	gattcacctg	cttcggcctc	240
ccaaagtgt	gggattacag	gtgtgggcca	ccacacccgg	ccaaggaaaa	cttttaaaaa	300
ataagtttag	tgtcacctaa	gtctacagtg	gttataaagt	ccacagtagt	ggacagtaat	360
gtcacaggcc	ttcacattca	ctcaccatcc	actcatttac	tcacccagag	caaattctag	420
tcctgtatta	caagctccac	tcattgggaac	cattttttaa	atcttttata	ccatattttt	480
cctgngccat	ttctatggtt	agatactgaa	tcacatcggt	tcaattgcct	gtagtantca	540
aggacaatca	catgcttgac	anggttgg				568

<210> 10130

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10130

ggatcataag	tatcttcaag	acaaaaataa	ttttctactc	ctgagcatgc	tcatttggtca	60
aaggaaggaa	ggaatcataa	tagcgttaat	aaggctagcg	tccttttcana	agttggttct	120
ttgngccagt	cttgnggcta	gacacacoga	taggaanaaa	actccttcac	atccccagga	180
caccaacatg	ggatacgttt	gatcatcatt	cttaatttgc	anaaggagaa	ataggctcag	240
tgagatgaaa	tagccactcc	agtggcaagg	ctgggactgg	aagccgggct	tgtcctgatt	300
ccaaatccag	tttctttcca	ctgccacgga	gacggagaga	agggacagng	gccccanatt	360
gggatggggg	gactggatgt	gggcaggcct	gcgggggaag	agtgccctct	gttgagcatc	420
cgaatgatgg	cnccagaaaa	gaaaactggg	canaatccca	gttattaaaa	tcctctgagg	480
ggaacaggtc	accccgaccc	ctnaggcana	agangggggg	gaanacaagg	cccatanatt	540
aaggccctgg						550

<210> 10131

<211> 448

<212> DNA

0092240.69462960

<213> Homo sapiens

<400> 10131

ggtttttttt	tttttaaaaca	tntacttatt	tccatttttaa	tgaanaatta	aaggatncaa	60
tgggttaaag	acncatttaa	aataactagca	agggattaga	cagacgaatc	aaattttgnt	120
gatatcccaa	ataattacaa	gagacttoga	aaatgtagng	naattcaggn	tttctttcca	180
gtttaaaaat	ttctatccat	tgctctatc	tttggggnga	ctgccacca	taaacncagt	240
ntacagctta	naaaccta	tactatcttc	aactaggaaa	aggnaaacca	acatcatttc	300
tttaaaatgn	gaaataaaga	atgngatcgn	acttaatttt	ggctcatggg	cccacaatac	360
tntgaaatgn	catgccnaaa	tgtaaaagtt	caaaagggaa	cnttatcatt	tgctataatt	420
gcnccaaaaa	tttagctctg	naonctgg				448

<210> 10132

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10132

acagtacatg	aatgttttat	tcttcataaa	gtgcttaaaa	catgaagaag	aagctcttta	60
taaagagcct	taactaggaa	gacaaacagc	aaagcagaac	catgcctgca	ccctgcccaa	120
cccacctgca	actttcctcc	aagtgtggct	cggagaagaa	acatcaacaa	ggaccctggg	180
cttcgattca	aaaactcctc	tgaagccatc	catgccctgg	gcattaggga	ggccccaaaa	240
ggtcagggcc	agggctggga	gtgaataaag	cccagaggaa	tccccagtag	gggggggtgac	300
tccccctctc	tcagaaaaga	tacttaacttc	totaataccc	aatgaccccc	aaaagcatga	360
ctgaaaccct	ggggaacagt	ggatactttt	ctcagatttg	atgagtggag	tttaaggtag	420
gtaaccgtta	caggggcttt	cctccatgtg	tggcgtcctc	ctgctccatc	ctggcagcag	480
acagacatca	cccaganggc	acgtgtctgc	ctgangcctt	tcaaaagcaa	gcccacaagg	540
ccctttcttg	aaaaaatggn	ggncccaaa				569

<210> 10133

<211> 363

<212> DNA

<213> Homo sapiens

<400> 10133

cccattgggt	gacagcgttt	attgaaagga	aatcttgctt	tatccaggaa	ttcactcaca	60
tggaggtagc	tgcaaggaga	atgtctcttt	ctcatgacaa	ccaaagcgac	caaaccatac	120
cctaaagcag	agacncaatg	gaataagtoa	acgggcattg	tagaacgacg	ctcagaagca	180
ggaaaaacca	taaaagatac	aggatgattg	tctcttcagt	attgcatttg	gccatgtatg	240
tgtttttaca	taaaatatat	gttttctttt	taagctagct	aaagaaaata	ctcttgatcg	300
gggttagttc	ttaaagcaaa	aaacngaana	aaangttgga	tananaataa	aantaaagaa	360
ccn						363

<210> 10134

<211> 433

<212> DNA

<213> Homo sapiens

0002270 69462960



<400> 10134

gcctcttttg	ttaaacagca	acagagctct	gccactttgg	ccaaccaccc	tcctttgtcc	60
tcttcccttt	ccctcctgcc	aagtgtccta	ttctcaaaag	gtctaaatca	ctgccttcca	120
gcttggtggg	caacctgctg	ggggccccc	gtgaggtggg	gaggggctcc	ctagctatct	180
cccagtgacc	tctatcacat	catcgtcttt	atcctcatca	tcattggagc	tgaacccaac	240
ctcggcaacc	tcatgagagt	caaatggagg	cacctgggac	cgtaggaggc	caccagctgg	300
gtagcctgca	tgtggggaca	tgtacctgga	tagatagaac	atgccccnca	aaaggttgtt	360
ggncaaaaca	gggaaaggaa	aaggcncaaa	catcctgggt	tngancagaa	ttggctggna	420
aantggaagt	gaa					433

<210> 10135

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10135

ctttgtcgtt	gttttattta	aaatgttatt	gtctctgatt	agaaaataca	gtcatgaggg	60
ctaaaaactg	aaatgatgtg	aaaaggcatc	cattaagcag	tgttgcccca	ccaccctctc	120
catcagtcct	gtctcatggg	gatggggaaa	atgaagacag	aacgctttgc	cttgctttgc	180
aatccctcct	ttgaaggcct	tctgtcccag	gaagccaatg	ttcatttgat	gtggaagagg	240
gacctgtgtt	taaccagaag	ctgtcctccc	tcatcccttt	cccatggcct	acacgcagaa	300
gggagaggag	atgaccagag	gagaaatcag	ggggaagaaa	aggcaacagg	ggaggcaaag	360
gggaaaggag	aggaatgctt	aaaatatacn	gngaaatttg	agtaggatct	ctactcaaag	420
acttctntgg	gaagtgtcca	naattgacca	cccagggtgt	gacggtngaa	agaaccnnga	480
cccaaaaccc	tggactagtt	gcnttaactc	cattagccct	gagttncctt	tgnaaaanga	540
aactggggggg	c					551

<210> 10136

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10136

aacgtgaata	atgctgttat	tagagttgaa	gagaagccct	tagaaatggg	acaaacattg	60
taattctctt	agagaactgt	aacttaaaaca	gaaatacact	taatagaaga	ggaaagaaaa	120
tggttcatgt	gacacaaagg	tcccatgtgt	tgacttcttt	ggtaagatca	aataagtatt	180
taagcctagc	aatagggtca	gtccagttag	tattttctct	cacaaatggt	gaatatcaac	240
tccaggatgg	ctggagtttt	ctcatggttt	ggttccacgc	catctgcatg	tctttacaag	300
tgataaaaac	cggaattttc	cagctgctac	tagtcacagg	gggtccccc	tatgggttgt	360
ttaattatga	tgacgggtcc	tgtcaattgc	atccagtaaa	attggtcaca	tagagaactc	420
atctaaaact	gagggtttgn	tgtggttttg	aaaggccatt	ggaatccaga	tttgcaaagc	480
atgtcaaggt	atggcaaaac	atatgccacc	catnttaaaa	actttcctta	taatgnanga	540
ctt						543

<210> 10137

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10137

ccttttaatg	ataatgattt	aacttagaaa	tctgttgtga	aacttttgtc	tagttttgca	60
attctcagat	attccagtgc	aaaaatagat	cccgttacag	acagcgtaaa	gtgcttgga	120
tgagggccaa	tgatgaacaa	agagcacaaa	aacagcttca	tcttagggta	taagaaggga	180
taatagcata	cctaaatcct	tatggaaata	gaaacattct	aagggggatg	caacaatttt	240
gaaaagaatt	agagcaatat	ttctacagta	ttacattatt	actagtagat	aataacaagg	300
gtacaaatta	atgtctcaat	atcaaagtgg	gttcagtatt	acatgacaca	tggctctttg	360
gaaaatattt	tacctgatat	atacaaccac	aagaagaaaa	cacagataaa	tggcttttagt	420
caatgattac	tatacagtga	atgaatgatg	tgcaacattt	aatagtcaca	aagcatttgc	480
tttcagtaca	gataatgaaa	tcagtagtgt	gagggttggg	tggtttttaa	caatgaattg	540
ngctggggca	tttn					554

<210> 10138

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10138

atgattatta	tggttaagaa	ttttattatc	aaaattatta	catctcttgt	gaaagttcaa	60
atgttacagc	aaggtgtaaa	cactccactt	gagaaagaag	tgataactct	tcccttccaa	120
gagttccccc	cacccccgcg	ccctaccccc	ccaagagggt	tggtcttgac	agcacccctgc	180
ccacacagag	tggtctgggt	ctctgcacgt	gccaggcagg	gtgagggccg	cctgcccgcct	240
ggcctctccc	cttggttaaa	tagccaaggg	gagaatgcaa	accccagccc	aaatggagag	300
acatttacat	acgtttttata	taatatacaa	agaaaccagc	atcccaggca	acatgatttc	360
cactcccaat	gctctcccag	actgatgggt	ttgtggggga	aacaacanaa	agaaaagtac	420
actgctgagg	tctcagcatt	taaaaaaaaa	nnnaaaaaaa	atctccccc	atttgagcaa	480
acacctgatt	tcgattttga	aaagngaaat	ttgnaacaag	tcacaccna	agaggagaag	540
actgtgcnt						549

<210> 10139

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10139

aacaaaatac	ttatttttatt	gttgtaaaat	taaaaatagt	agacaagcat	atatacagtt	60
cccaagcaga	gcaatacaaa	tatatataat	attgcagttt	tcaaagaaaa	tgtaacagcc	120
aaataattgc	ctactttttt	gaaacaaact	tggtttttac	cacagcagtt	tcattttctt	180
tttccaaaag	tcttaacaca	attttgtaaa	gtaaatctct	aacgccagag	agattaagtt	240
caatgaccat	agtatatgct	actgnittta	agcaaggtta	acacacacac	acacacacac	300
acacacacac	aaaatgggac	tgaacaaaag	tcactactta	atactttcta	aattgcctct	360
tttgagggta	cggtgaaaga	aaaacattct	agatgtgtct	gaaagaaaca	aggtcacaca	420
cttactaaaa	ttcccctttg	ctttaagngt	agttgaggga	agttcaacta	atcttaaccc	480
tttttgggaa	gaaggcaata	ctcatcttca	tgaatttttg	ttacnttgga	aacc	534

<210> 10140

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10140

acaaaggact	gaagtcaaac	cgccaaaaga	aaaatgtatt	gtaacaacaa	atagggtaca	60
actttaagga	atgtactttt	aaaattacta	tgagttttatc	aataataacc	tttcatgtta	120
agtcttccaa	tttttgtaca	taaaaatgat	tttcatcaaa	ccactgaaac	tatccattgt	180
ggatgtaaat	aaaataacca	agttcaatgt	aagaaagcag	cataaaacaa	agtaaaactt	240
gtgatttgca	aatcagcctg	atgtaagttt	gttggttggtg	ttgttttttt	ttgcctttgt	300
agttgcagaa	ggtgagctct	gttttagaag	gagtcatttc	attccccaat	tgaattttta	360
ctcatttagg	ctaaaatcac	ttcaaaagtt	taaaatgagg	gtagaggaaa	taaaaaggaa	420
aaaaagtaaa	cntataggta	agtttatcag	atcactaaat	gctanccttn	gaatatccaa	480
ccccagccaa	tgcntaaggt	ctttatgcca	tcctggattt	ggnntttnta	aggggaa	537

<210> 10141

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10141

ctcagagaat	tatttaataa	tagaattacc	atacttttgg	cgcaaatgtg	tccaacacca	60
atgtgacaag	tacatatatc	agaatcactc	tttccctcaga	gaatcacacc	ttcccttggc	120
tctgcctgtg	gatccaaatc	aagcctgggt	gtggctgaca	ataccagggc	acggtttgct	180
tcccggccct	ccatctctac	tgtttggtta	cagcttgagt	tcactaggca	tcggctcccc	240
tctcaggcca	gccagcaagt	tgtagctgc	caacaaggac	atggtgttgc	gggttctgng	300
ggtggcaactg	ccaatgtggg	gcagaatcac	acagttcttc	agggtcatga	nanggttgg	360
ttgtaagcag	tggttctggg	ctcgncacat	ccagtccagc	agctgcaatc	ttaccactgg	420
ccaagggctg	gtacaggctg	ncctgggtta	cgaacgtcgc	ccctgggaat	gacagtgggt	480
gacatgggta	ccccgaaaa	atccttcgnc	aagccanct	ttgggggna	acaactaccg	540
at						542

<210> 10142

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10142

gtgtgttaag	tcacttgttt	atttctcaag	atgtgcacac	tcaagtatga	agctggccgg	60
gacaactcat	ggctcctagg	tatgtacagg	ccctttgatg	gcttgggtta	cagacaacct	120
catagctggg	gcaccacaca	cacgagataa	aacaggaagc	ctaaaaaccc	caagccacac	180
caagaaaaat	gagagagggg	agggcggggt	aacaatgcag	catcccgcgg	agggaactta	240
atgcacaagg	agggagaaca	gagggtggaa	ggcaagccaa	ctttcncttc	gcccncgcaa	300
ctgctgngng	ggtgggcaag	ggactgagtt	caacaagggc	ctttaggaaa	ctttttggaa	360
tcgggtgaan	tctgatnaaa	aaaccggggc	acaatcgagg	gaacttttgn	aaaggcttcc	420
acttggcttg	aaactcctcc	tggaaggttt	tnagggtttt	tgctggcagc	ttcgtaaatg	480
ggcatgtcgt	tgnggcggat	gtcctcancg	agagaccgga	ccagcctccc	ttttgggtta	540
ctggnagg						548

<210> 10143  
<211> 311  
<212> DNA  
<213> Homo sapiens

<400> 10143  
agntagattc tacctctgnc acccaggcgg gagtgcagng gcatgatctc ggctcactgg 60  
actccagctt aggcaacaga gccagactgn gtotcaaaaa caggaaagaa aacnaaagaa 120  
aatttggact attgccaatt acaaataatt ttagagaaga attcaaaata gtaactgngg 180  
atgatggaaa caatagttat gatagaagtc tgatgaaact tcccagttca caaggaaatt 240  
taattactta cgtgcagcat ttttaagacag taatcagaat cntgantggg ngnatnatnt 300  
tagggccccc n 311

<210> 10144  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10144  
caggataata accaaagggt ttattaactt ggaaaataaa aattcaataa aacattcaga 60  
ttgggaagat aaaaatgaat aattcttctt gaaagcagat cagaaacata gacgaaaaat 120  
agaaaagata aaaaatatta gagcatcagc ctgggtgtag gggagggtcc aacattgaaa 180  
taatagggtg tccagaaaga aagaatgtaa ataatcacia gaaaatttaa gaaatttccc 240  
atgaaggccc agcacaaggt ttaacacccg ggatacaaca ccatcatgac agttcagaac 300  
accaagaata aagagatctt aaatgtttcc aggaagggtg gataaaaaaa cctaagtcac 360  
atataaagggt acnggaatca gaatggcatc agaaatctca accagcaccg cttgggaagg 420  
gctaggggan gggattattt tccacctggc attctatgct cagccccatt ttggtnangg 480  
ccnaaatncg gactttttta gtcatgccaa aatctcaaaa tattttacaac ctttttacnt 540  
tccaggtctt ttcn 554

<210> 10145  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 10145  
gagagagaga gtctcactct gtcacccaga ctggagtgcg gtggcacgaa cactgctcac 60  
tgcagccctg acctcctggg ctcaagccat ctcccttct cagcctccag agtagctgag 120  
atcacagtcg catgccacca cacatggcta aatttttttt tgggggcggg ggggtagaga 180  
cggggatctc accatgttgc ccaggcaggt gaagtgtat tttataatta cctaaaagtt 240  
atagtttatt tggtttgatg gggtagctta tttattttta atcttcaatg tagtagaatg 300  
actttttttg gtgtttttgt cagcattata atcttcagtg ttcttaatga acactttcat 360  
taagtttaat aaatgccttt agcaacaata atatatgcca acaagaatca tgacaaattt 420  
ctacccaact cgttgggtaca tttctgattc tggttcaatg aaaatgtctc tcttaaaaat 480  
gncactttg caaaagcttg gcataattcc ttnccaagcc gtgtttacac agnantgaac 540  
cgaaagagtn t 551

<210> 10146

09629469.072800

<211> 396  
<212> DNA  
<213> Homo sapiens

<400> 10146  
gagacggagt cttgctctgt cgccgctgga gtgcagtggc gcgatctcga ttcactgcaa 60  
gctctgcctc ctggattcac gccattctcc tgcctcagcc tcccagtag ctgggactac 120  
aggcgccac caccacgccc agctagtttt ttgtatttt ttagtagaga cggggtttca 180  
ccgtgtcagc caggatggtc ttgatctcct gacctcgtga tccgcccacc tcagcctccc 240  
aaagtgtctg gattacaggc gtgagccact gtgtccggcc aggcctctct tcttaattca 300  
acagtcaagt atctcagagg gtttctctct agtgtctctt cctgtttgaa aggaagtggg 360  
acaactgaat gcttcctcaa tntttnttn tnnnnn 396

<210> 10147  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 10147  
ctgttttttg ttttttgitt ttttttccca aagcggctgc agttaggtct tgaaaaagct 60  
taaggtatta aaactagaaa aacgcaccaa aagtgtgtgc taaaaaagtt gctccccaat 120  
gagaagtott ctaccgtcat ggagcttctg ttccacata ctgtccaaga ccaccacagg 180  
gtgcaccgta ccattgggag gtgcttccat attccgcaac aaatgaaact tccatgatga 240  
agatccggaa gaaaagatgt agtgatggaa aaggagccac atattccaac catttaata 300  
actttaattt acatactnac tnacacaggt accagggctt tgaaaataga ttggtcagtc 360  
ctaaaaagca nctttggtct ggcttcnctt ttctggccct tccttttttag ccaaggcagg 420  
ccttccaact tttcantact gggtaagta aggttgngtt aanaanttnc ccaacgcttt 480  
aatctttttt ggcntggat ttttcaggna aaatt 515

<210> 10148  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10148  
cttttttttt tttgaaacag cgtctcactc tgtcgcccag actgctggag tgcagtggcg 60  
cgatctcgac tcaactggcaa cctccacctc ccaggctcaa gcaattctcc tgcctcagcc 120  
tcccagtag ctgggattac aggcgcatgc cactaccgcc cggctaattt ttttagtaga 180  
gacgggggtt cgctatgttg gccaggctcc tgacctcaaa tgatctaccc accttggcct 240  
cccaaagtgc tgggattata ggcatgagcc accgtacctt gccctcaatg caactttcta 300  
aaaaatgcct actacaaatc tcttaactaa tgactctctt aggctgctgc aatacagaat 360  
ttcttttttt ttcttttttt tttnagaca gggctctcgt ctgtcaccca ggctggagt 420  
caatggcaca atcacagctn actggagcct caaactcctg ggctnaggca atcttcacc 480  
ttagcctcca agtagttggg actaccaagn ggcaccaaca tcctgggcaa tttnaaaatt 540  
ttgnanaaac cggg 554

<210> 10149  
<211> 564

<212> DNA

<213> Homo sapiens

<400> 10149

gcctgggtccc	cacatgtttt	gggtttttgtg	acatatattgct	gggcccata	cctagaaaat	60
ggaaggctcc	gcctggggcc	tgtccacagt	ggatctgggtg	acatatctct	gcattaatca	120
cctaagagat	gtggctgtct	tcttctccct	gaaccctgct	tacagggaag	attgtgacat	180
attgctggca	tcagcaaaca	gacgatgtgt	ctctcgtaat	tgggccttgc	ccacagaaag	240
cattttgaca	tattgctggg	cttattactg	aagggtgaagg	gtgactcttg	cagcctgcac	300
cctgcanggg	gttggtaacg	tattcctggc	tgagtaccca	ggtgatgtga	ctcttctgcc	360
tggcccttgt	gtcaggggaa	agaattgtga	catattcctg	gcccagaaat	caagggtgaag	420
gtgacttttc	ctgttngctc	cctaccocaca	ggtaaaaact	gnggacatat	atcttgggtcc	480
actaacagtg	caataacgac	tntaatgccc	acataagcca	ntngaaagga	actggcagtt	540
taactgggat	ttgaaaaaan	ggtg				564

<210> 10150

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10150

gagatggagt	tttgctcgtt	gcccagctg	gagtgcaatg	gogcgatctc	ggctaaccgc	60
aacctccgcc	tcccggttc	aaacgattct	cctgccacag	cctcccagat	agctggaatt	120
acaggcatgc	gccaccacgc	cgggctactt	tttgtatttt	tagtagagat	ggggtttcac	180
ctgttggcca	ggctggcttc	caactcctga	cctcaagtga	tccaccgcc	tcaccctccc	240
aagggtgctg	gattacaggc	gtgagccact	gtgcctggcc	tatttattta	ttttattttt	300
gagacagcgg	gagtatctcc	caagctggag	tacaatggcg	tgatcttggc	tcactgcaac	360
ctccacctcc	cgggttcaag	caagtcttat	gcgtcagcct	cctgagtagc	tgggattata	420
ggcatgcgtg	accatgcctg	gctaactttt	ggatttttta	gtanagatgg	ggtttcacca	480
ttttgaccaa	actggctcga	actcngact	caagngactt	ctgccttggg	ctcccaattg	540
gtgggataca	g					551

<210> 10151

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10151

gagatggagt	ctagctctgt	tgtccaggct	ggagtgcagt	gacgcgatct	cggctcactg	60
caacctccac	ctcccaggtt	caagcaattc	tcttgactca	ccctcccga	cagttgggtat	120
tacagggtgcc	cgccaccacg	cccggctaac	gtttgtattt	ttagtagaga	cggggtttca	180
ccgtgttggc	cagcctggct	tccaactcct	gatctcaagt	gttccacctg	cctcggcctc	240
ccgaagtgtc	gggattacag	gcatgagcta	ctgcacctgg	tctaaagggtg	cattttttgta	300
atgtcactat	tatggctctg	acaataggga	ccagagggtca	tttcatittta	ttattgggtta	360
totacatttc	tctctcagt	tgaaacttgc	tgatatttga	agaaactggg	atgtgaggca	420
gggaccaatc	atggaggtgt	gtctgagacg	gaggggggttc	ctgggaggca	ggactgatgc	480
tggtgctaata	gctgggggaaa	gtcccaggca	ggctancang	gtggcaccaa	gottcgatgt	540
gaaccgccgn	antntgcn					558

<210> 10152  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10152  
aaacagagtc tcactcactc tgtcgcccag gctggagtg agtggcatga tctcgggtca 60  
cagcaacctc cacctcccag gttcaagcaa ttctcctgcc tcctactcct cccatgtagc 120  
tgggattaca ggtgtgtacc accatgcctg gctaactttt gtatttttag taaagacggg 180  
gtttcaccat gtcagccagg ctagtcttgc actcctggcc tcaagggatc tgcctacctt 240  
ggcctcccaa agtgctggga ttacagacat gagccaccgc acccagcctg gttgggagaa 300  
tgttctattg attccctagg atgctaggaa gtactcagca aatactaaat gtagcaattc 360  
tcaggggtta ggaggagtto aagataaatg agtattgtaa acacagtagt ccaggtaagt 420  
taagcccca tgccctcttc aggaggcctg gtctctggac acttacagaa gaaaagtcca 480  
cccctcgtat acaggccttc catagcttac ttctcaacag actgnagctt caacctgaaa 540  
cacnnttttn catnttacta a 561

<210> 10153  
<211> 571  
<212> DNA  
<213> Homo sapiens

<400> 10153  
gttttttttt tttttttttt tcccagttag aaaacgtttt atggacacgg aacgctccac 60  
tgtaacgggc aggcagaaca cactcctttc ccaggctcat caattaaaca gaaaacaggg 120  
gagctctcct caccocagcc tggccctgtg ctccccaatg gcccctgcga ggcccctacc 180  
atggcctgcc tgggagacac aaactatgac aggaacacac tggactgata cagaatgagg 240  
ccagacacac ccatgcctgt gcctcccaag agcgacccca ggacagtggg gcagacagag 300  
gtgtctacac tggcagaaat aagggttgga gccacacgtg atgctcggac acaaacggca 360  
cgcagctctg cagcctggcc acacaccctt cgcgtatgac tccactcctc agggttcacg 420  
gggctgtgta cagagactct ctctgtctgac acgatggcca cagcccttc gngtatgact 480  
tcacttcctc agggttacgg gcttgtgtac agagactntt tntgntgacc catgggcata 540  
tggnccttgc gtatgactcc attcttangg t 571

<210> 10154  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 10154  
gaagtgggtc aaagtacatt tattttttaca atgaaagctc atctatgaat ctgataaagg 60  
ccttccttca actggagaca atttgggatg ttgcaaaaca aggtttggga agcccttcta 120  
tggatcggtt ttgtgtccaa gtctgtccct gccaaaagcc atcaaaaagtc tccatcacc 180  
ctgggctcca gtctgctacc ccagacttg gcagctggga tctctccttc ctggttcata 240  
gttctcatat ccaccctca gcgatggagt tagagttcca ggcccacgtg gtgaacgaga 300  
ttgtgagtgt caagaggga tacgtagttt atgatctgaa gacccaagtc ccaccaccg 360  
aagccgggtc cctgcttcca ggtgacggtg agtcaagtcg cgaggaggcc gacagagggc 420

09629459.072800

tgctggangc	cggtttggaat	naaggatgca	cggncanaag	ccangcccca	tgcccccgan	480
gccccacttc	tttccccccg	nccggaaaagg	cctgactttt	cccccttcanc	ttg	533

<210> 10155

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10155

acagatagga	tcttgctgtt	gcctagggtg	gagtgcagtg	gcacaatcat	agctcactgc	60
agcttcgaac	tcctgggctc	aagcaatcct	cctgcctcag	cctcctgagt	agctgagact	120
acaggcacgt	gtcaccaagc	ccagctaagt	tttttatatt	ttgtagagat	gaggctcac	180
tatcttgccc	aggttggtct	ccaactcctg	gcctcactca	atcctcctgc	ctcagcctcc	240
caaaacgctg	gagttacagg	tgtgagccac	tgcacctggc	ctttgtattt	tagtataaaa	300
tgtgctttgg	atagaatcat	tgctttttct	agcttgnggc	cttttttttt	ttaagtatct	360
gnataaggca	gttgaaaaac	aagttcaagc	tggacactct	tgagtccagt	cctcatgttt	420
tcagcccact	gttgcaccca	attcgtgtgg	gcaagcctgg	ggcccatggn	atgagggatc	480
tnccagtaag	gaagctgnta	tttggccaaa	accgcanaaa	cttgaaactt	aangggatcc	540
aaataaatgg	cngttgngg					559

<210> 10156

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10156

ccaagactat	tattttttatt	tccggacaaa	aacatctgt	tcacacagtg	cacggcatca	60
aatgaagagg	aaagaacttg	tatcccaaag	cctggctttc	tgtatcatcc	acaaattaag	120
acagcatctg	ctgagcccat	gctgagcctg	tcacagtcaa	caactgggaa	accggggcct	180
ctactgaacc	aggggacaag	tagccgaagc	acttaaacag	cttgataact	gttttttggt	240
acatttgttt	atttaaagca	caggaaatga	ataaaaatgcc	acctaaaaag	tatctgcaat	300
gaataaatta	tttccagtga	agcactgcag	atccacacac	accagtctgc	taacctttac	360
caaggccatg	tccggtgggc	ttgngcttgt	cccagttgac	tcttccttga	gacctttccc	420
ttctgngcaa	tgaccacagc	attagagacc	agtcctgcac	gcgctggctt	cctcgaaggc	480
atggaaaacc	acgtggatga	ncagtgggct	ggcattgcag	aaggtttaac	aaanggactt	540
tactggtttc	aggggccctg	a				561

<210> 10157

<211> 502

<212> DNA

<213> Homo sapiens

<400> 10157

agatggagtc	ttgttctgtt	gcccaggctg	gaatgcagtg	tcactatattt	ggttcactgc	60
aacctctgcc	tcctgggttc	aagcgattct	cctgcgtcag	cctcccagat	agctgggatt	120
acagatgcac	aacaccacac	cgggctaatt	ttttgtatatt	ttagtagaga	cggggtttca	180
ctatgttggc	cagactggtc	tcgaactcct	gacctcgtga	tccaccctcc	ttggcctccc	240
aaagtgtcgg	gattacaggc	gtgagccacc	gcgcccggcg	gccctgacta	tttttaatga	300



gccccgcgc	aacaggctgg	tgtgaaatgt	gtgttgaggg	atgctttgng	aagaataagg	360
natnacagaa	agacagtgc	ctgatgggtgc	aatgaaagca	acacaggnc	tcttaacctg	420
nccaagaaac	ttatggnttt	gggggaacaa	tcaagngact	taaataccct	ttaagnggaa	480
tctcatgggt	ttnacaggaa	na				502

<210> 10158

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10158

aaagacagag	tctcactctg	ttgcccaggc	tggagtgcag	tggcatgac	ttggctcact	60
gtaacctcca	cgtcccagg	tcaagcaatt	ctcctacctc	agacccccaa	gtaactggga	120
ctacaggcta	atTTTTgtat	gtttagttaa	gactgtttcc	ccatgttggo	caggctgggc	180
tcgatctcct	gatcacacgt	gatccaccca	cctcggcctc	ccaaagtgtc	gggattacaa	240
gtgtgagcca	ccatgctcgg	ccccagaggc	acgtttctaa	gtcctgaatc	tgcatgtctg	300
gctacaggca	accttccctg	ccattgacaa	gtgttatcaa	tctgtttgac	ttggctatat	360
gcataaccaa	gggccctgac	ttcccatctc	caacaaggaa	ccacttttct	taatgcagtt	420
ctggagcaaa	tccagatgtt	tgtcaaagct	tgactgcccg	catgctccct	gacccatccc	480
ccaaanggct	tntagaacia	acaataagcc	atggcaaggt	tctggcacgg	anccaagcct	540
tggaaaaact	agtttggagg	taaggcttgn	ccang			575

<210> 10159

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10159

ctcaatcatc	gtttttaatt	ggctttataa	gctaaagtgc	atagtaaaga	caaaaaaagg	60
aatgcatac	ataggaaagg	gacacttaga	aaggacctga	gatacctaaa	tgtctgttct	120
aaggaacact	ggaaggagg	aatgcagatg	caggcagcag	gcctgggtct	ggcttctggc	180
ctgggtttgg	agcctgcana	agctgctggc	atgctagctc	taccagggga	acagctccaa	240
gagggagtgt	tgggatgaag	gatcacactt	gggatagggt	ctgctgggtac	caaagtgtgat	300
tttagctcca	ttcagggccc	aggggtaacc	agcagtggca	ccaaacctgt	cancaggtaa	360
agaaacttct	accatcccaa	agtgcaggtt	acaggaaagg	ggtcactcct	taatgacgac	420
ctgggcctgc	tgcataangc	ccatcttatg	caacatgtgg	gctgnccatc	tttcccactt	480
tttagggcta	tnnacttggg	caaggtnaan	tggncaac			518

<210> 10160

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10160

caaatacacat	atggcttctt	tgaccccatc	aaataacttt	attcacacaa	acgtccctta	60
atttacaaag	cctcagtcac	tcatacacat	taggggatcc	acagtgttca	aggaacttaa	120
atataatgta	tcataccaac	ccaagtaaag	caagtacaaa	aaatattcat	ataaagtgtg	180
tcacacgtag	gtcctagatt	accagcttct	gtgcaaaaaa	aggaaatgaa	gaaaaataga	240

tttattaact	agtattggaa	actaactttg	tgcttggctt	aaaacctccc	tnacgctcgt	300
ctgtcccaca	caaattgtta	agaagtcact	gcaatgtact	ccccggctct	gatgaaaaga	360
agcccctggg	acaaaagatt	ccagtgcccc	tgaagaggct	cccttcctcc	tgngggctct	420
cctanaaaac	cagngggacg	gcctcctgct	gatccgnnta	tacctanggg	gncc	474

<210> 10161  
 <211> 446  
 <212> DNA  
 <213> Homo sapiens

<400> 10161						
ccctcaatac	aacaagttgt	cacaaatcgt	cacagtgata	cagacttata	agaaaccaat	60
gaaacaatac	aaattaaata	ctaataaaat	aaatactaca	gaagacagaa	gaacacaggg	120
gaatggagtt	ggggggcgct	cagagatctg	ggattttctc	atttctcctc	gggacaggcc	180
aaggccatcc	agggcccagg	tttggctctg	gtcatgaaca	aggaggccag	tccaaggggac	240
cccggcgcca	cctcccacca	cccccgggac	ctcttgtcct	cagacatgga	gttcaacttt	300
ccacccccat	cagcaaccac	gataacaatg	acgacgacag	ggagatgaga	actaattgta	360
accaaaaaaa	caaaaacagt	ccagtcgcta	atgctggcat	tgataaggcg	gnttcttgtg	420
gnccgtatta	ttgcctnant	nttnan				446

<210> 10162  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 10162						
gttaataacc	aggacatgga	agtctcttgg	aagaactttt	aaaatttgca	tgattctctc	60
cacagatgac	aagagctcaa	aggcctggtc	acagtggtct	ccgggaggcc	agtacacacc	120
caactgtcct	agacagaaac	acacaacaca	agggttagaa	acagggtttc	aaagacaacc	180
ctctgggcca	ggaatgagga	gtcataaaat	acttcaatta	gccattaatg	ctttaaaaaag	240
gcattttttt	aaaaagtccc	accacaaagg	ctcaacttca	agtactaatt	taatggttaa	300
gttgtaatat	ttctttgaaa	taatattcct	atgggtccaga	aaaaattcac	catatttata	360
actgatattca	tgagcaaaca	ctttcaattg	ntggatgtac	ataagtcctt	tttgatctaa	420
tgagaggaga	gacctggctt	ncaataagaa	ttcactagaa	atatatttcc	gtgggactnt	480
ttaaacttat	taagggcctt	gcctccatgg	ntttannnta	gottgctggc	ctttggntna	540
aanggtatcc	cttatgaaag	gcgg				564

<210> 10163  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 10163						
ctgcaaacga	gtatttattg	ggcncctgng	atggggccaag	cagtatttng	ggngccaagg	60
atncaacagg	gaaaaacatt	tcctnttttc	ttggagcttg	cattcttggg	gganagacaa	120
atgaataatt	aangccaagg	agngggaaat	atgagtaana	aaaaaaaaaa	aagagggggt	180
gganaaggga	aggcctcctg	aggggacatt	tcagccaana	cctgaatgat	gganacaagg	240
acacggggcct	gagggcagca	gcaggatgga	caggacccaaa	ggtccgtgca	aaggccctga	300

ggctgaatgg ngtttgagga atgttgaaag gccngtgagg aggggaancc taanaggaat 360  
taanatccnn cag 373

<210> 10164  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 10164  
aaccttgtgc ttgtatagat atatTTTTga gacgaagtct tgttctgtcg cccagggtgg 60  
agtacagcgg tgcgatctcg gttccctgat acctccgcct cctggattca cgcaattctc 120  
ctgcctcagc ttccctcagta gctggaacta cagggtgtgca ccccccacacc cagctaattt 180  
ttgtatTTTT agtagagacg aggttttggc atgttggcca ggctgggtctt gaactcctga 240  
cctcagggtga tctgcccacc tcaacctccc aaagtgcggg gattacaggt gtgagccacc 300  
gcgcccggcc ttgngttact tttaatgagc caaaagacag taagaaggag caaagcaaaa 360  
cccaccgaag gctctgtggg cagctggccc tgaaagcaca tcctgnctct tgnTTTTacc 420  
aactatgtga gcctttgggc aaaataccta acagtctgaa gccttaagtt ccttattaga 480  
aaaagggaga agatgatctg gatatttctt aagggtaatg gttcttccat ntctgaagg 540  
agg 543

<210> 10165  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 10165  
ctctaattctt gtcttcatgc tttatttcat taagttgato ttcaatctct gatataccttt 60  
ctttcacttg atcaattcag ctattgatac ttgtgtatgc ttcatgaaat tcttgggctg 120  
tgttttcagc ttcatcaggt cgtttatgtt cttctctaaa ctagttattc tagttagcaa 180  
ttcctctaac cttttatcaa ggttatttagc ttcccttgcat tgggttagag catgcttggt 240  
tagcttggag gattttgtta ttaccacact tctgaagcct acttctgtca attcatcaaa 300  
ctcattctcc atccagtttt ggtcccatto ctggcaagga gttgtaatcc tttggaagat 360  
aagagggtatt ctgatttttg caattttcac cttttttatg ctggattttc ctcattctca 420  
tggttttatc taccttttgt ctttgctggg ggtgacctta ggatgaagtt tttgcatggg 480  
ccgccttttt ggtgagggtga tgctactgct tttggtgnata agttttcctt ctaacagtca 540  
gn 542

<210> 10166  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 10166  
gagagagaga gagacaagga tcttgctctg ttgcctggac tggagtgcag tggcatgato 60  
atggctcact gcaacctcga cttctggggc tcaaggatcc tcccatctca gcctcccaag 120  
tagccgaggg actacaggca cgtaccacca cgcccagctc ctaaggacat cagctttaag 180  
tacaatgctc caatttcttc ttttcacaag agtgtatcca tgtattactt atgaaattga 240  
aagtttaaaa aagcttttag aaatacaaat ctagggggaa tgtcttgagt gagtgggatt 300

09629469.072800

ctgacgactc	aacggattaa	atgtcatgag	ggctgatccc	agctgcctgg	aatgggtctg	360
ggctgtggaa	ttgcaccgac	aggtgtgcca	gcacagcgct	ggccctggcc	aaggtgtgga	420
acacactgac	tcccagcact	gntccgaggt	gctgggaacc	ccaagtgcaa	gacattacaa	480
gacgccacgc	ttgctgccaa	cactgnatcc	cgggacccga	ccagcggang	tgttgatn	538

<210> 10167

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10167

gagtttcaaa	acgagaacat	ttattatttg	ttttttcctc	attaaagttt	cacaaataaa	60
gcacagcaag	acttgtctgc	agacacacag	gaggcaaacg	gacagcccgt	caaccagaga	120
tggagacgaa	ggccagcggt	gctctcacag	ggcagcgctt	ctcagaaccc	ctggccccc	180
tcgtgccaa	gctggcctgt	gtcaggcctc	gcccacgcgc	ccttatgaca	aatagaggcc	240
ggtgccaa	aggtggctac	agagcagggg	caaggaagtt	atcctcatgt	tctgataatg	300
accctgcaaa	tcccacccca	ccctnaggca	cctncgtcta	anggtgtcgg	ttactccagg	360
taaggaggtt	cccaggang	ccgtgttttc	cctaaggctg	atgaaacttg	ctccgacaag	420
ccaggccact	gggaggcacc	tcaggatgga	aaagatgctg	gaggctttgc	tggctttcag	480
gatgcccga	gccccacggg	ggccaaang	gaagaangaa	agcgantntt	aagacagatt	540
ggtgntggt						549

<210> 10168

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10168

caatgtccac	atcttcatat	ttattttccac	agtgttaaca	tggaatagac	ttagcaacca	60
ttgcagagaa	aaaaaaaaat	ctctcattgg	tttatgagtt	aaatcctgta	acaatgaatt	120
tcaaccattc	gaagtcttct	gctgcttaac	atttactgaa	tcaaaggctg	aagtaaattg	180
actctcatct	aggtctcaga	aatcacacag	ctggcctcgt	gatgtattta	cgatgggatt	240
taacttctaa	tacaaggcaa	gtttgacagt	tacagccaat	gaagtgcacg	actctgtaca	300
tggatttctt	gacctaacat	tcaaaaggac	atttcatagt	actagttaa	ttctgatctc	360
tctctagaag	gcagaaacca	catcccacac	tcctatgcaa	tttgttat	tggtattgta	420
aagtaaata	ataagaagg	gtggaggcat	aaagaaaatc	tagtttctgg	ctgggcangg	480
tggttcacgc	ttgnaatccc	gcnccttggg	aggccaaggc	ggntggatca	cnaggnn	537

<210> 10169

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10169

gagacaggtt	cttactctgt	caccaggct	gaggtgcagt	ggatctatct	cggctcactg	60
cagccttgac	ctcccaggct	caggtgatca	ttccacctca	gcctcctgag	tagttgggac	120
tataggcaca	tggcaccacg	tccagctagt	ttttgtat	ttttttaga	gacgaggtt	180
cgccatgttg	ccccggctag	gcttgaactc	ctggcctcaa	gcgatccact	cgcctcggcc	240

tcccaaagng	ctagaattac	aggcatgagg	tactgagcct	ggcttgactt	ataattctga	300
tgaaaatgtt	caatgtcaac	ttaagaatgg	goaagggagc	acatgggctt	ttggaattct	360
tttttttttt	tgagacggag	tcttgctctg	tcaccaggc	tggantgcan	tggcgtgac	420
tcggctcact	gnaaccttcg	cttcgggtt	caagcgattc	tcctgnctaa	ccttccaagt	480
actgagaata	caggcatgca	ccaacacgcc	cagctaattt	gganttttag	ganaaanggg	540
gg						542

<210> 10170

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10170

aaaaacatga	gagcaaattg	tacatatatc	aatctccctt	gcttgtcttt	aagaaagggc	60
cgttcatagc	atttggcaca	aaccctctat	ttctgttgca	ttagcatgat	tttaaataag	120
aaggaaaata	aacatttgat	ttatttcatt	cttcctaagt	ttctgggcag	ggacatgcct	180
tactctttta	gaaaccaatt	ccaagatgac	atctgactgc	atttttctgt	tggtccgaac	240
ttctaaacaa	acactcataa	agtaagttaa	aacaatttgg	agatgtatga	ggaaaaagtc	300
ttgttctgtt	cagttcagac	tttgttaaaa	aaaaaaaaaa	aaaangaaaa	gaaaaaaatg	360
ctcatttcac	atgtccatga	tcttcattga	ttttttttta	gcttatttga	gtttgattaa	420
gggacaaaaa	agaagaggcg	gcaagttttc	cctatctctt	tggagtgttt	cgctcaagga	480
aattttgctc	atcaagggtc	gctacatacn	cagnggacac	atnaaaggca	aactgggggg	540
ctccgaggat	acaaagg					557

<210> 10171

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10171

agtcctagat	acaattcctt	tattatcatt	atcatgcccc	ctagcacatg	aagctgggct	60
tccacctaga	tcagctaagg	acaggggtat	gtttacaatg	agaacaattt	ctctatgcgc	120
attaggttaa	gacctcttct	ctgtttctag	aatactgtga	tgactcacat	ccatgggcca	180
gctgcttcca	ggaatccatc	tggcctcaac	aacattgggc	tgcttggaat	aacggctggc	240
acttgcacag	ggcagggtat	ggggagcagg	cctcagggtc	ataagcagga	ctgggcactg	300
ctgaaatagg	ggaagggggc	agccaacatg	tagcagggtc	tccaaggca	tgtagaagtt	360
ggtgggaaaa	tggggctggg	gtgtgtaact	tgtcccttcc	caggaaggga	cccaggcacc	420
tggtctcctg	gccaaagatc	caggcgatcc	aagagtcctc	cagggaagaa	caagactgna	480
cagacgcaca	gcanaaangc	tttcttggtc	ggncatgaac	tgccatggng	acacgcttna	540
ttctagcccc	caagg					556

<210> 10172

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10172

aaaaaacaaa	gtgtgcattt	tccttactac	gtttagtcag	gaatatgcgg	tcattttatt	60
------------	------------	------------	------------	------------	------------	----

ggttactggg	tttctcatac	aaacagatat	aatatcactt	ttaagagaaa	tgtacacaag	120
gaagtaacca	tagtaccact	tattagtggg	ggcctctggg	tacataaatg	ngtcctccca	180
aatagtcac	atacattcaa	tgtattgggt	agggccaaaa	tccctaaacc	acctntcaac	240
aaaacattac	acctttgggt	ctttattatg	caaaaattac	aaattggcaa	attcaataag	300
aggatgcaat	gggatttgag	catnacagcc	aaattgctta	tactaaaaaa	ttttaaatc	360
ttanaatctt	ttttccttaa	acctttncct	ttcccacctt	acatnagaaa	aatggatgct	420
taaaacnaaa	cnggaggagc	aantaaccaa	ccaaaaaacc	ctntccccaa	ng	472

<210> 10173

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10173

ccatggctta	cttttatttt	ttattataaa	aacacatata	agagtittta	gaaataacga	60
atataagaca	aatcaaaacc	atgggtgagtt	attaaaccca	ttttctatat	acaaatacta	120
aaattcccaa	agnggaatat	catccaatgt	gagacacatc	atagcacggt	ccatatgtac	180
acggcacaca	gagctctgcc	tgcgctcatc	tgtgaattgc	tcattacatg	tcactgataa	240
aaaaatctgc	aagggaactt	ctactcttca	gttctctctt	tcctgatgca	ttgtcacata	300
tttttaagga	actttaggga	tatgaagaaa	atgcattaaa	gtgggtttct	gctaagggtc	360
ctgcatgttt	tgctctgac	aattacgcac	tacatcttga	gaaaaacttt	tgcaactcat	420
ttccagcaaa	gatagcagaa	aactctangt	ttttgccaat	taattttttc	ctagcctcat	480
tggaacccaa	gtccaacacc	accggttang	gacccaatca	tggtttttat	attgggaagt	540
caattntaaa	aggcccctca	att				563

<210> 10174

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10174

gtttttgttt	ttttttgaga	tggagtcttg	ttctttggca	aggctggagt	gcagtgggtg	60
aatctcggct	cgctgcaacc	tccaccaccc	gggttcaagc	gattccctc	cctcagcctc	120
ccaagtagct	gggactacag	gcgcccgcga	ccacgcctgg	cttaattttt	tctatttttag	180
tagagacagg	gtttcaccat	gttggccagg	atgggtctcaa	tctcctgacc	tcgttatcca	240
ccggcctcga	cctcccaaaa	tgcttggatt	gcaggcatga	accaccgtgc	ccagcctcat	300
tagttcttaa	agtcactaat	agcattatct	tatgcccacg	aaccagtaag	tcagacccaa	360
gcctgaaata	gtgttttctg	aaaaatggaa	aaggaaatat	aagaatttta	aaaacaaacc	420
ttgaaatcag	tttctcaagt	taaaattctg	atggatgtca	caaatagtaa	gggcttcctt	480
actgagctct	ggcatctgnt	ttggctttta	tgcatactgg	gatttgggaa	gctgctgctc	540
aacattctag	cccatttnca	gaggggnc				568

<210> 10175

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10175

ggagctggag	ccttgctctg	tcacccagac	tgaagttcag	tggcacaatc	tcggctcact	60
gcaacctcca	tctcctgggt	tcaagcattt	ctcctgcctc	agcctcccaa	gtagctggga	120
tttcagcacc	tgccaccacg	cccagctgat	ttttgtattt	ttagtcaaga	tgagattttt	180
gccatgttgg	cgggctgggt	cttgaactcc	tgacctcaaa	tgatccgcct	gcctcagcct	240
cctaaagtgc	tgggattata	ggcatgagcc	accacacctg	gcctttttct	tctgtttcta	300
actgttccct	tttatttccc	tatggagcat	ctactgagcc	ccagcccagag	agtagaaaca	360
aacctgctgg	ctgctctcaa	ggcacttata	gtccagtagg	ggagacggca	ctnaccactc	420
agtcacacaa	atgaccgtcg	aattgtgacc	caccttaagg	caattggctt	ttctgaggac	480
taaggaggga	cnaggagcta	aggaggaccc	ctttatgcca	antaaaacct	ctggggaact	540
t						541

<210> 10176

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10176

cttaaaataa	aattaaggct	caaagtgtct	attaagctct	cattgcttat	gtatattata	60
ttaaggctta	taaatgcacc	tggtaaatta	aattcaccct	ggattgaatt	aacacctgct	120
atatgagtta	tttgctttat	gtaatcagta	atctcaagg	ttctcctctt	tctctggaaa	180
cacaatttaa	atattaacct	aatctttaaa	ctgcggctgc	ttctttctga	catttggaaa	240
ctggtcatcc	atacaaaaaa	aggcaaatat	ggatatatta	atgaaaaggc	agcttctcaa	300
aaatcttaaa	gtatgtaact	caatgaattg	ggaaggaaaa	tgataaaaagt	agcaggaaaag	360
tcaagtcttt	gtgncacttt	ctagggaaaa	caatgctggg	catctgccaa	caacaccttc	420
agtctgagaa	cctgctgaag	ttgactggca	attgccaaaa	agtctttggg	tttcttcatt	480
tgaatctctg	gaaaaancct	gggaagctgc	catgcogtgc	aaaaaaattt	taattttaaa	540
aangc						545

<210> 10177

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10177

caataaatgt	atagaaattg	ttttattcaa	agactaaggg	ggaaaggggtg	agaaattaag	60
tctagcagta	caattataga	acctctgggtg	tattctcatg	ggaaaattaa	tgttttaggt	120
aaaatggaga	cgacagtagt	tacgacaaat	acttgagaaa	agcctatgaa	attactgact	180
ttggtagtcc	agccaaacat	ttgcttcagg	aaaagcatcc	agaaatataa	tgatttaggg	240
atatcaagg	atactatata	aagcattgtt	gtatatatta	tttctctttt	tcccttggga	300
ggtaatatct	gaattattat	cagactccta	atgaggaaac	actctgagaa	gtgagaagcc	360
tgcttgtgt	caaantgggt	aaaatcagag	agacaaaggc	gttagggctc	gactcaggnc	420
ctctgaactg	cagggttcta	ttgaagtgn	caccttgco	gagctttnaa	gottaaggaa	480
tgggcnagg	aataccctgg	ggnacattcnc	nccggaa			517

<210> 10178

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10178

gctttgactc	atattattaaa	aaaggcttca	tgtaaaccctt	gcatgagaag	atgtccatta	60
cttactcagg	atagagggca	aagagattat	atacaaaaag	tattttcaag	gactatcttg	120
ttcttccctt	ataagaagtt	gaatttaatt	tttgaagtaa	ttacttagga	agaaatgcag	180
aggagtcca	cagaaaaaga	tggaaccag	aatgatattc	cgtcagccag	atttttaaaa	240
ttccttcact	ctgaaatttc	ttctttgtca	gctaaaaactg	ttttctgggt	cagtttcctt	300
aggtgagcct	tgttcacatt	cagtatcaaa	accagctgac	atattattatt	ttggtttcat	360
tttccttttt	gcggctttat	ggttctttcg	acaatccata	cgcaggttgg	ttggctctggc	420
ctccaagaag	ttcctgctca	tattacttcc	tactcctntc	cagaataagt	cagaaccttg	480
aagtcgtcat	catcttaggg	gaaaaggaaa	atctangggc	ccttttcaag	aatgagctn	539

<210> 10179

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10179

gagatggagt	ttctctcttg	tgcaccaggc	tggagtgcag	tggcacgctc	ttggctccct	60
gcaacctcca	tctccctggg	tccaagccat	tctcctgcct	cagcctcccg	agtagctggg	120
attacaggca	cccgctacca	tgcccggcta	atttttgtat	ttttagtaga	gacagggttt	180
caccacgtta	gccaggctga	tcttgaactc	ctgacttcag	gtgatccttc	tgccgcggcc	240
tcccagagt	ctgggattac	agatgtaagc	caccgtgccc	ggccttctat	aagatcacag	300
aattgataag	ggccagagct	gggattcgaa	acaagggtg	cttatctcta	gagccctggc	360
ccttgtcccc	tcacctttgt	ggaggtgggg	tttagctgga	gotgaagggt	agtctgccct	420
caggtagaag	catggtgggg	agagaaccan	ggagtanggg	tggggtgtna	anaccttccc	480
ttcacaattn	cttgangagt	ttttnggggg	ctttatt			517

<210> 10180

<211> 463

<212> DNA

<213> Homo sapiens

<400> 10180

aacattggga	cacaggttta	ttgtgatgat	ttcttgaatg	aaataagtta	gaagagatgt	60
gtcaccaatg	acaaccattc	accaagctct	gtgtaagaat	tttcatgtia	tctcagttaa	120
tgttcccaga	gacacttgag	acggggatca	acccattttt	taaaatttga	gacagggtct	180
tgctgtcacc	caggctggaa	tgccgtgaca	tgatcatagc	tcaactatagc	ctcaacctcc	240
tgggttcaag	caatccttct	gcctcagcct	ccctagtaac	taccatgccc	ggctaatttt	300
tatttttttt	tgtggagatg	ggttcttggc	atgttgccca	ggatggcctc	gaactcctgg	360
cctcaaggga	tcctcctgcc	ttggcctcca	aagtgttagg	attataggcg	tgagccactg	420
nacctggnc	naaccccant	tttnangnga	cttggcttaa	aga		463

<210> 10181

<211> 484

<212> DNA

<213> Homo sapiens



<400> 10181

cacagaaccc	actcaggatt	ctttctggaa	acaacctggg	ggactttgat	gagaggctca	60
agccttctag	ctacctcaca	ggtcagactc	tgggccccag	gaacccttg	ccctgggcct	120
gccctcaggg	aatgattcat	aattaagaga	aaagccttgt	gctttatgtt	tcttcctcct	180
cctctaagca	ggcggcaggg	gaagggtggag	gggttggaa	gggaatgggg	ggaaccgact	240
ggagactggg	atittgattg	agaggcccca	ttatccacac	tcttaaaaaa	ataaccgaat	300
cttttccttt	tttatcttga	ccaatctcat	ttcacgctcc	agaagaggaa	gggaggggagg	360
gagggagtcc	ggggccagga	gggacagagg	agtcagtatt	ctgnattttc	aacgctgcat	420
taagcacatn	gncacggtaa	ccaggcagca	acaaagtgcc	ancttaacan	gntnccaagg	480
gagc						484

<210> 10182

<211> 355

<212> DNA

<213> Homo sapiens

<400> 10182

atccaaagt	tcatccattt	tataatcaat	attagtaaaa	aagaccaaga	cacatgggct	60
gggtgcgng	gctcatgcct	gtaattacag	cactttggga	ggccgaggng	ggcggatcac	120
ctgaggncag	gaattcgaga	ccagcctggc	caacagggtg	anaccccatn	tntacttaaa	180
acacaaaaat	tagcagggca	tggnggngca	cacctgttgn	cccagctact	tgggaggctg	240
aaacnggaga	atcttttgaa	cccgggaggc	ggagggttgca	gcgagccaag	atcacnccac	300
tgnactcaa	cctgggtgac	agactgngac	tctgncaaaa	acaaaaacnn	aacn	355

<210> 10183

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10183

gagggcaagt	cttgctctgt	cacccaggct	ggaatgcagt	ggcacgattt	cagctcactg	60
caacctctgc	ctcccagggt	caagcgattc	ttgtgcctca	gcctctcaag	tagctgcaat	120
taacaggtgt	gtgccaccat	gcctggctaa	tttttngct	tttagtagag	atggggtgtc	180
accatgttgc	ccaggctggn	ctggaacttc	tgggctcaag	tgatccacct	gcttcagctt	240
cccaaagtgc	tgggattaca	ggcgtgagcc	actgcgcccg	gcctntatca	cacttcttat	300
gccacccagg	taagcatttt	catggggctg	gcttctntnc	ctttttggag	aacacggatc	360
aagggctgaa	actttggaat	ctacagnacc	agccataatc	aacccctttt	tccacaanac	420
acacaaggca	agcatgcctg	gacccctttt	gacacanggg	ncacatacat	gccctaatta	480
cttgggagag	atntncatac	ctttnttntg	ggggggcnca	cgttcctttt	caaggccaaa	540

<210> 10184

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10184

aaatagggac	aaggtctcac	tatacttccc	agactgggtct	ccaactcctg	gcttcaagca	60
attctcctgc	ctcagcctcc	caaaatgctg	gaattacaag	cataagccac	cccacctggc	120

cagtttcagt	ctattattat	tattattatt	ataatttaag	ttctggaata	catgtgcaga	180
acgtgcaggt	tacataggta	tacatgtgct	aagggtgttt	gctgcaccca	tcgacctgtc	240
atctacattg	ggtattttct	ctaattgctat	ccctccccta	gtctcccatt	ccctgacagg	300
ccctgggtgtg	tgatgttccc	ctccctgtgt	ccatgtgttc	tcactgntca	attcccactg	360
atgagtgaga	acatgtggng	ttnggtttct	ggccttgnga	aaagtttgct	gagaatgata	420
gtttccagct	ttatccattt	cctggaaaang	acatgaccgg	anccttttta	atggcnggat	480
aagnattcca	tgggatatac	gtgccggaat	ttcnttaatc	ccggctatcc	tnga	534

<210> 10185

<211> 528

<212> DNA

<213> Homo sapiens

<400> 10185

caaacaaata	agtttttatng	gcatntaaaa	acaaaattca	cccaacattg	aaacgtncctt	60
taatatttat	gttggtgttt	tcttgtttct	tttttactca	ctgcagtatg	aggaacaaat	120
cacaaacnct	tactttggan	aaacaganac	cgtagngtan	attttacaaa	atcacttttt	180
aaaatctctg	tattgggctc	ctcaaatacc	tanagccagt	ctttgcataa	aatatcacag	240
ctttatctat	aaccttaaaa	ttctgcagca	gcctaaagat	atggataaga	tntaccacca	300
cttgctattc	tgaaatatnc	ctattaccat	atccaacctc	angatatgat	ctaaaaaatt	360
ctttcttcca	taggaagtct	ctgacaagct	gntattcatt	tccttgacgt	taaaagaatc	420
tggggccaac	atttggaatt	tatccgaaaa	aaattnaaaa	aaggttaccc	accatggtca	480
ttttaagnac	aatnggtttt	ccaggnaant	gngcccatth	ttttnagg		528

<210> 10186

<211> 503

<212> DNA

<213> Homo sapiens

<400> 10186

gagggctggg	gaaaatctta	atggccaaaa	cataaaacaa	acctgcgtgc	acacaaacga	60
gacacaatta	cagaaagcat	agagcctggc	tctccccctg	gcctcaaatc	cccaggtttt	120
gagagtcatt	acttctgggg	gatggtgact	agaagggtgt	gggaggagg	cttctaggag	180
ctggtgatgg	tttggtggtt	tcttcacttg	ggagcctgct	cctgggtgag	tgcgggtgaa	240
aagtcattcc	gcaagacctt	cgctcttctc	tgcaggcagg	taggttatcc	ttgagccatg	300
gggatgacag	aaagctccca	ctgctcanca	ggggtccggg	ctcctgcgca	ggtctctacg	360
gactctnttc	tgtgacctgg	gcaatgcccc	actnttttca	atattcaagc	tgtggcgtnc	420
ancaaggccg	ttatgggaag	gaangggcaa	aaggatcaaa	gtaattggga	accantgaca	480
ncgggttaag	ggtnatgcc	naa				503

<210> 10187

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10187

atcatcaagt	cttaccattt	atttctttat	ggggttaaac	aagagcagag	aggcctntgc	60
cccacaatgc	aacaaaacag	aaagcagtac	atatacagag	actntcaccg	aaacacagag	120



tacaggcatg	tgccactgtg	cctggctaata	ttttgtat	tttagtagaga	cgggggtttt	180
ccatgtttggn	caggctggnc	tnaaactcaa	actcctgato	ccagntgato	cgnccgcctt	240
ggcttcccaa	atngctggga	ttacaggctn	tgagccacc			279

<210> 10191  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 10191						
agattcatct	ttttaatgac	atcctaaaat	tcagaggagg	ggccagcggg	acctctgggc	60
tcagcggctg	tgaaggagg	acccgcaaca	cccgttaagg	caggtaattg	caagaaggca	120
ctcgcgaggg	ggacttcaag	cccctcttct	atttcttcat	ataaaatcag	ggggatgggg	180
aaagctccaa	gggcgaggga	agcagagaga	gtttctctcc	cagcctatgg	aataaggaag	240
aggtgaggaa	gggtgagggt	ctgggagcaa	gaaactgcc	agtcaggac	ctgccctcac	300
acagacacac	acagcccga	cctgccctcc	ctctaaaatc	tgcatccggg	gctgtaagga	360
agccccgtgt	tcaagcccc	atctcttctc	ccttctagct	ggtaccaagt	tggtaatcac	420
cactctgggt	gatgtagcga	accagggca	nggcctggta	ccacttttct	taatgatcnt	480
catgtatcgg	acctggatcc	agaaaacggt	gaaattnggg	gatctnaact	tgaccnatt	540
ggggggggccg	gcctt					555

<210> 10192  
 <211> 534  
 <212> DNA  
 <213> Homo sapiens

<400> 10192						
ccaagtcttg	ccctgtcgcc	caggctggag	tgcaatggcg	caatctcggc	tcactgcaac	60
ctctgccctc	tgggttcaag	caattctcct	gcctcaccct	cccgagtatc	tgggactaca	120
ggcatgtacc	accatgccc	gctaattttt	gtatttttag	tagacatggg	gtttcaccat	180
gttggccagg	ctggtctcaa	actcctgacc	ttgggatcca	cccaccttgg	cctcctaaag	240
tgctgggatt	acaggcatga	gacaccacgc	ctggccggta	gacccaaatc	ttaaagcaca	300
tactctactc	tagtgggtcc	taaacttttag	catgcatcag	aatcatttgt	agactttgtt	360
aaaacacaga	gttttggtta	cactcctacg	gttttttaat	caagtaggtc	tgggggtggag	420
gctgacagct	agagtttcta	acaagttccc	aagcccaact	attgctggtc	canaaacccc	480
actttgagaa	ccactggnet	ancnccaaca	gnggtcaata	gnntacnggg	ttat	534

<210> 10193  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

<400> 10193						
ganacagagt	ctagctctat	tgccccaggc	tgagtgagc	ngggacgato	tcggctcact	60
gcaacctntg	cctcctgggt	tcaagcgatt	ctcctgcctt	agcctcctga	gtagctggga	120
ttacagggtc	ccgccaccgn	gtccggataa	tttttggtt	tttagtaaag	atgggggnatc	180
atcaaatttg	ncaggctgggt	ctcgaattcc	tgacctcagg	ngatccacct	gcctcggcct	240
cccaaagtgc	tgggggttaca	ggcatgagcc	actgcaccta	gccagtcagg	gcacttttaa	300

aagcaaaggt	cctattcaaa	tgtaagggnt	ccttatatgc	aaagaggtta	cacgaagctg	360
cagcagntag	attaagagcc	aacacatcct	tntntgcccc	tgggacacat	gagcnttaac	420
aaactccaca	aacttttctt	ttatcaccca	anaatgaanc	ctggtatgct	taaaaaccng	480
ggngaa						486

<210> 10194

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10194

gagacagagt	tgtgctgttg	cccaggctgt	agtgcagtgg	cccgatcttg	gctcactgca	60
acctctgcct	ccaacgttca	agcaattctc	gtgcctcagc	ctcctgagta	gctgggatta	120
caggcgtgcg	tcaccacacc	cggctagttt	ttgtattttt	agtagagatg	ggggtttcac	180
cacgttggcc	aggctgggtc	cgaactcctg	gcctcaagtg	atctgcccgt	cttggcctcc	240
caaagtgtcg	ggattacacg	cgtgagccac	cgtgcccagc	ctgcataatg	atctttttaa	300
aggcattaca	tactgtcaag	tttacacgac	acaattcact	taactatgat	gaattatgaa	360
gttaaagtgc	aagctcggtg	aagtgtcagc	attttctatg	cgaatgacct	atttgcagaa	420
aagcacacaa	tggcaaaaca	agtggttaat	nacaaaaaac	actnacaaga	gtgaatatcn	480
tntaggaag	tttcacntaa	aaaaattaac	cgnttan			517

<210> 10195

<211> 535

<212> DNA

<213> Homo sapiens

<400> 10195

cctatgaaaa	tgtttttaat	tttcatcttt	tggaaataca	tttttcattt	ttatttccac	60
catacaaaaa	tgtgaaatat	ctaacaatga	tctatctgaa	gcggttgagg	caaagcagcg	120
ccatgagcgt	ttgtcgttgc	tgtgatctgt	ttcaacggag	aatgggctgg	gacatgttgt	180
agatttgcac	gatttcacac	acacacacac	acacacacac	acacacacac	acacacacag	240
acacgtacgc	acacacgctg	ccgtaccccg	agaccgccat	ccaaacaaac	gaacagagac	300
tctggaaaagt	gaacacagcg	ccacgcataa	gaacagaagt	taaccttttt	actcgtacat	360
cccccatgag	aaactcacgt	cttaggagaa	aggaactcta	cataaatatg	cccaaaggcc	420
agggcatacg	gcaagccctc	tcatgggttg	gcatgagtgg	acatcttntc	gaaggaagga	480
caagcttgaa	agcgcatggt	ttcangcagc	tntngnggga	agcagggang	nccaa	535

<210> 10196

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10196

agagattcag	ggtgccattt	ttatttccca	tggagctgag	gacctgagca	caggcagcca	60
ccagggtgc	tcagaccctc	ccgaccttca	gggggtggag	tggttttgga	gttctgatct	120
tgggtaggca	ggcctgtcat	attgccagaa	atacaggcat	agaggcaaga	gagagaagaa	180
gaggagaaga	agatagcagg	aagtaaaggg	gacaatgaag	agagctaagg	gactccttcc	240
ttcttctctc	tggcactgtc	tccttctctc	ttctgcctcc	acaccaatct	cttggccacc	300

008220" 69462960

agctggaatg	tcaaacagtg	gatggtgaca	gcaggcaggg	aaggggccag	ctgcaaggca	360
ggcccaggca	ggaggccggc	agcaggagga	acaggatgac	acccttggga	agcagttggt	420
gatgggcagg	gcacacagat	ggccctgctg	anggcTTTT	cgtacgaang	gtcttccatc	480
tccaaggcna	cacgtgaagt	cttntccaac	tgggcattgg	gcttgactgc	cgccccgat	540
cttcaagang	gncaaaaa					558

<210> 10197

<211> 509

<212> DNA

<213> Homo sapiens

<400> 10197

gcaacacaag	tcaatcttta	ttgaaaactg	cagtattaat	acataacaat	tcttgttaca	60
ataaacgtgc	ttttgagatt	tttaaactctg	agctcatctc	atcagattgc	ataaaaaatt	120
aaaatagtat	caattgacac	ctaactgaac	tggctcagga	tggaaattcc	attccttggc	180
atggatacgt	aagttcaatg	cagaggtgag	ggatgccttt	aacactggaa	gacaatgctg	240
acttagctta	aaaaaagtac	cgagagaacg	gtgtaaaaaa	cggatattta	aatcattttt	300
taaaaaaaca	aaaaggaacc	gtttcttctt	tagttacaat	ccatgaggct	ctctagggcc	360
tctccgtgtg	gccagcacag	caaccctgct	aggagcacaa	acggctggcc	tgagatctgg	420
cccagctgcc	ttgcccactg	gtctgcatag	ggactcatgg	gcacagcctg	tgggtangan	480
gganaccctg	ncatgncnan	cctggggagc				509

<210> 10198

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10198

agtagacaca	gggtcttgct	atgttgccaa	ggctagtctc	aaactcctgg	cttcaaagga	60
ccttcccatc	tcaacctccc	aagcaaccag	cattacagag	atgagcagct	gtgcctggct	120
gaattctttt	tttttttttt	ttttttgaga	cagggtctca	atccgtctcc	caggctggag	180
tgcaatggca	caatctcagc	tacttgcaac	ctccacctcc	tgggttcaag	tgattttcct	240
gcctcagcct	ccctagtagt	tgggattaca	ggcactcgcc	accgcaacca	gctaactttt	300
gtattttag	tagagacagg	gtttcaccac	gttggccagg	ctggtctcaa	actcctgacc	360
tcaggtagtc	tgctgcctc	ggcctcccaa	agtgtctgaga	ttccggcgtg	agccactgac	420
ccggcctgaa	ttcatttttg	gataaaaaatc	caaaggagtt	tataatgcct	gcaataaaaa	480
tcattcntat	nccttttaac	atcttantgg	ccaaacacat	nattngcaat	taaaaataac	540
ccccnaaaaa	aatt					554

<210> 10199

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10199

gacacagagt	cttgctctgt	caccaggct	ggagtgcagn	ggcacaatct	cagctcactg	60
caacctccac	ctcctgggtt	caagcgattc	tcctgccgca	gcctcctgag	tagctgggat	120
tacagggtgcc	tgccaccaca	cctggctatt	ttttttttta	tgagactgag	tttcaactct	180

000220" 6946960



gctttgaagc	acagcacaca	aaatgaaaca	atttaaaacc	ccttcataaa	aatgggaaaa	120
attcccaggc	caaaggaaaa	aaaaagcctt	cacagaaaga	gactgacact	cgactcccc	180
cctgctgagg	tgtggccagt	gagtctgggt	gtgagctgcc	acctgacagc	cagctctgag	240
gtatcaaagg	agctccgagt	gcaagttgaa	gacttcagca	agccagcccc	cgccccccac	300
acccgttcat	aggcagtcgg	aatgcagatc	tcgggtggcag	gtgggctctt	gcacaagtcc	360
agagtataaa	aacaatcaca	gatgactaaa	tgccanggac	tggtgnaag	caggtaactgg	420
cttgagctn	gggcacttct	gncnttatta	gacctggtgg	nacctgacg	tgaggagAAC	480
ggagcacagt	tccttcgng	cttctgcgg	gcttgtaag	gngngcatgg	ttgancctgg	540
caagcatttg	gattttggag	tctcactctt	aggccaa			577

<210> 10203

<211> 590

<212> DNA

<213> Homo sapiens

<400> 10203

ctctttcttt	ctctctctcc	ttctctctct	ctcttttatt	tgtttattta	tttatttttt	60
tgccctttgt	gcttctcctt	ttcctgcctg	aaatgtaaac	atgggtggctg	gagttccagc	120
acgtctagag	aacatgaaag	tggcagagca	aaggagcaga	aagctagaaa	gagctggatt	180
ccctgattca	caatggtacc	ccggtaccct	aaaccagccc	tgggttcctt	atctctgtat	240
tttctttcac	atgacagaga	aataaacctt	tgtctctgtt	attatttgga	ttcgttggtt	300
catgcagaaa	cattaaatct	tgactgaata	ccaacaccta	atcagaggca	gaagccagct	360
accacactc	tgaccccaga	gtcatagatt	cacagagcta	ttgccttaat	ggatcatcct	420
cacacctagt	tcacaagatc	aacgacaggc	tggcagctta	aagaattccc	gggggaacaa	480
ggcattggaa	aagtcaaggt	tcctggggcc	acccatccct	angggatttg	gattctatga	540
aggcttgggt	gaaggttggg	aaaggaattt	ttaaaaactt	tnccnggggg		590

<210> 10204

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10204

aaactagatt	tttattttta	ttatatattcc	atgtgaagac	atcaccocaaa	tgtcagcgga	60
gcaaaagact	ttatggtcag	ataccaaagg	cgtacagttg	atcccacttt	ggaataaatg	120
cccagaaggt	aataagcatt	atcagttagt	gagagctcta	ggcacaaaaat	aagttctcat	180
tcagaaaagt	gacagagata	tgaagcagtg	aaacatatag	ctttaaaaaac	tggaaatcat	240
tcatgacatt	tgttttcaaa	gtaaacatta	tctgcatttc	aagaactgta	attttcaaaa	300
gtagaatcag	gcctgattaa	gtaatatatta	tgacttacag	ataaaattca	aaaataaaaa	360
tgaaaactct	tctggccctt	gaagagatag	aaaactatat	ttttttccct	gnatggccca	420
gagattatca	gtattcatcc	ctaaggctgc	ttaaaaaaag	gtattttnaa	tcggctttct	480
ggtctgcnct	tttacaatgc	aaacgggtta	tatggcctct	tgotgagtga	aaggangata	540
attcctgctn	aatgaaagaa	ctccatttcc				570

<210> 10205

<211> 469

<212> DNA

<213> Homo sapiens

000220"69462960



<400> 10205

acaattaggg	tcatttaact	atttaattgc	tttttgagat	tattgctgaa	attaggaagg	60
gagcattgaa	atgggaaggg	ggaggttaga	gaagacagag	atttaaaaga	agcaagtacc	120
attttccaag	tataaaactc	gtaatattaa	aagtgcata	gcagtatatt	cacatgacta	180
cttaagtcta	atgcagaaac	aagacagtac	agtttttgca	gaggccgatg	tgacatctgc	240
atgcaacatg	atactattaa	gtgtctctac	ccacctctgc	tacagagtag	ctgctatatg	300
cacacataca	caaaaataca	caatgaaaag	cctacaaaag	gtggtaagtc	caactaaggg	360
tcttaaatgg	aaaattaaag	gnggctccag	tanggnccct	tggaaaaccc	cttttccctn	420
ggcccatggt	gncccagccn	aaaggaacca	agngctcggg	gctgggtct		469

<210> 10206

<211> 285

<212> DNA

<213> Homo sapiens

<400> 10206

canggtaagg	cttttgaaag	atttatngaa	ataaattatc	tttgccataa	aatttacctg	60
tcaccttttt	caattacttt	tcaacattct	aaaaactttc	cgttatgtaa	aatncattta	120
aactttgcca	ataatngtag	ataatacnng	attcttccca	aanggactac	cacaaaacaa	180
agctttcaaa	gagtaaaaaa	aaaaaaaaaa	aaaangtaat	ccaanggggc	ataaaaactgn	240
ggtctgtanc	ctatgacttc	anggttcaaa	tccttaangt	taanc		285

<210> 10207

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10207

cctgggtgcag	ccagatgttc	taacttttgg	acaaatgagc	gtggtcagta	atgtacaata	60
actcttgagt	ctgttacttt	ggcctagcta	agcccatctg	gccctcgggc	atcctgcaag	120
atgacagaca	gaagagcaag	ggcactatca	gaaatggaac	aggctgcccc	ctactcctcc	180
cagcctctac	cagtacacag	agacagactg	gagatagagc	attcgcagcc	agttggcatc	240
ttggttcttt	tgtcttctga	aaataaaaaat	aagtgccttg	cttgtctttg	ggggtcaaaag	300
agaaccgcac	taattttatt	cctcgagggg	gcttttctgg	aggagaggat	cctcaagtcc	360
tgtgccaagg	tttcacgctg	tttggccaca	cgccaggcct	ttcttctgga	tctggtctac	420
acgtccagag	atgatggagg	aattgcatca	gcacatcatg	cncagtgaag	nggtggcttt	480
ttgtccaaaa	aaggccattt	ccgggcctgg	tacatggcct	aagggcctgg	cggaagtttg	540
aaaagctggc	ttcaaanagn					560

<210> 10208

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10208

gaaggacagg	gttaccgagt	ttatttcttg	gtgcctccaa	gagctcatgg	aaaagcagca	60
cagtgcagca	caagcaacag	tggtcagtaa	atgtatatga	ctcaacacat	tgccacagtc	120



gagatggagt	ctcgtctgt	cacccagggt	ggagtgcagt	ggcgtgatct	cagctcactg	60
caagctctgc	ctcccgggtc	cacgccattc	tcctgcctca	gcctcccag	cagccggggac	120
cacaggcgcc	cgccaccatg	cccaactaat	tttttgcatt	tttagtaaag	acagggtttc	180
accatgttag	ccaggatggg	ctcgatctcc	tgacctcatg	atccacctac	ctcagcctcc	240
caaagtgcgt	ggattacagg	cgtgagccac	catgcccagc	ataaaattgc	taatttttga	300
cataaggcaa	tttctttctt	tttttgtttg	agatggagtc	tcgctcagtc	acccaggctg	360
gagtacagt	gtgcgatctc	agctcactgc	aagctctgcc	tcccaggttc	acgccatgct	420
cctgcttcag	cctccaagta	gctggggacca	caggcgcccg	gcancggggc	cagctatttt	480
ttttggaatt	taggnaaaac	ggggcctaac	atcttncccg	gaagggnnn	anttctgacc	540

<210> 10212

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10212

atTTTTTTTT	agacacagtc	tcgctctgtg	gcccaggctg	gagtgcagtc	gtgcgatccc	60
agctcactgc	agcctctgcc	tcccaggttc	aagcgattct	cctgcctcag	cctccccagt	120
agctgggatt	acaggggaccg	tgccaccatg	cctggctaata	ttttgtatatt	ttagtagaga	180
tgggggtttta	ccatgttggc	caggctgggc	aagaactcct	gatctcagggt	tatctgtgtt	240
gcccgtcaca	gcagccacta	gccacatgtg	gctactgggt	cctgaaaaatg	tgggtggcaa	300
aacatacacc	caatttttgaa	tacttaatac	aaaaaagagt	acaaaatatc	taatgatgtt	360
aattatatgt	tgaaataact	tttagaaatt	tgtgttaaaa	tatatagtga	agattaatct	420
cacctttttt	tttttctttg	gtgagacagg	gtctactgtc	gccaagctgg	antgcaatgg	480
cgtgaacctt	gnttactgga	accctnaact	tacangntta	aagggaanct	tccccntaa	539

<210> 10213

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10213

aagagacagg	atctcattct	gttgcccaga	gtggagtgoa	gtggcatgat	cgtagcttac	60
tacaacctca	aattcctggg	ctcaagtgat	cottctgcct	cagccttcca	aagtgcctggg	120
attataggca	tgaggccact	gcgcccagcc	tcgttagtca	tttatctacc	aaatacatgg	180
aaaactcaca	gaatcagagg	gtcttatcac	caaactctatg	tttgctttgc	aaaaggctcag	240
gtcctgcatt	ttcaaaatgt	tccttgtgct	ctgttatgct	ttatatattca	tagcacagca	300
acgccccctt	cacaacgact	ggtgatcatg	ttaccaatit	ctgtccatgt	atctgaatga	360
gggttatata	cttcaactga	gtccaaggta	cctggagcca	aaaaatcatg	gctggaagat	420
cgacctccag	aaacatacag	aagaccattg	actgccacaa	cacacatgcc	tgctctangc	480
actttcattg	angcaacttn	aacccacttt	tnctotttta	aaggaaattt	ttctnccggt	540
tggaan						547

<210> 10214

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10214

caggaaaaaa	ttattttaata	gtataacaaa	atgcaaaaata	aagtacccaa	gttacaaaac	60
ataaatttct	ttggttcatg	atcacaccac	tattttttacc	ttccacatag	ctacagacat	120
cacaccctca	aagtgaagtc	aaactgtccc	cctcatactg	aagatgtcat	gccaaaacca	180
tcacataccc	cactgttcag	tgaaactgtt	ggcaacttac	atggaacaga	gctgtggggg	240
aggaaaaagg	gaaaagggtt	gcgttaaaaa	aaatggggag	actctacaca	tgagaacaa	300
gttagtggga	gggagtgttc	tgctgggtca	acacgccatg	aaccacaccc	ctattcgtgc	360
tacatgaggc	tgagtccttg	ctacaaccac	acagaaatac	agacaatcaa	gtgaacctga	420
gcacccccag	ggataacaga	agaaaaatac	agagaagcag	aggagagaaa	gaatggcagc	480
aagangcaga	tcacagaatc	cangggacac	ctagtncnaa	cctgggtttac	cnatngggna	540
ag						542

<210> 10215

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10215

ganaaggagt	tttgcgtgtg	ttgcctaggg	tggagtgcaa	tggcacaatc	tcagctcact	60
gcaacctccg	cctcccgggt	tcaagccatt	ctcctgcctc	agcctcccga	gtagctggga	120
ttacaggcat	gcaccaccag	gccagctaa	tttttgtatt	tttagtagag	acgggggttc	180
tccatgttgg	tcaggctggt	ctccaactcc	tgacctcagg	tgatctgcct	gcctcagcct	240
cccaaagtgc	tgggattaca	ggcatgagcc	accacagcca	ggctattttt	ggaattttct	300
aaagcacaaa	acacataatg	aaaatacagc	ttcaaatttc	cttcacata	tattcttgag	360
actaattaca	aagttaaagt	gaagggtgtt	tttttgtttc	cagagcatct	tttttagaga	420
gaagtaggta	tagatggagt	tgctatacat	aaagcactga	aaagnggctc	tttcaggatn	480
ggaacaaca	ntttccttta	aaataacct	ntggggggcca	aaanaaagn		529

<210> 10216

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10216

caattattaa	atgtttggca	ctttattaat	taaataagct	ccaaaattaa	ttacatacaa	60
atcaaaggaa	taagaaacaa	taaatagttt	attcagcaaa	cacctctctg	cagcagccgg	120
cagctctgag	gccgaggctg	gcgtcctgtg	gcagagggcc	tgtggattgc	catgctcgct	180
cccaggggtg	gctcaacagg	gacacaggtc	tactccttcc	acatcgggtt	tccggaacaa	240
caactgaact	ctcattcatt	accatcccat	tcattaccat	ttttttttac	atacacgaaa	300
cacaccgcaa	tgtatagact	aataagccaa	gagctttatt	gatgcagcag	gcactttaca	360
atgagcccaa	gagtgtccac	cttctctggg	aagacaggat	gtctgtacaa	actcttgggt	420
ttttttccac	ttcaaaaaca	caagctttcc	cgtttaccac	agcccttggg	tctgnacctg	480
gccaaaccat	tccttcccca	aggcacacag	ggacctttgg	accaanacca	gnccngcaac	540
ttgnaaaacc	ggna					554

<210> 10217

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10217

gagacggagt	ctcactgngt	agcccaagct	ggagtacagt	ggtgtggctc	actgcaacct	60
ctgtctctgg	ggctcaagcg	attctcatgc	ctcagcctcc	caagtagctg	ggactacagg	120
cttgngctac	catgtccagc	taatataat	atattttttt	atttttagtag	anacgggggt	180
tcaccatgtt	gccagggng	gtctcgaact	cctgagctca	ggagatcagc	ccgactcggc	240
ctcccanagt	gctgggatta	ccagcatgag	caaccatgcc	cggcctaatt	taagtttttt	300
ttaatgngat	gttgaagatg	cttcagaaat	gactagtcac	totcacatga	ctataccact	360
gctgcatgag	gcataaggta	ccttcctcgn	cctgnacacc	acaacgcacc	acaactgaca	420
cgtcgtgggg	cccttcacag	acacctgttg	atggaatgaa	tgaagggcaa	ccattacatc	480
cnnggacaga	accttggaan	ctgggcattg	tnccaaggcc	cggccggaaa	aatggct	537

<210> 10218

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10218

gaaacggagt	ctcattctgt	caccagggct	ggagtgcagt	ggtgtgatct	cggctcactg	60
caacctccac	ctcccaggct	caagcgattc	tcctgcctca	gcctcccag	tggctgggac	120
tacagacatg	taccaccaca	cctagctaata	gtttgtattt	tttagtagat	atggtgtttt	180
actatgtttg	ccaggctggt	ctttaactcc	cgacggaccc	caagtgatct	gatcacctcg	240
gcctcctaaa	gtgctgggat	tacagggtgtg	agtcaccgog	cccagcctat	gtatttttta	300
tttttatttt	tttggtgcag	agatggtgag	gatgtcttgc	tttgttacct	agggttggtct	360
tgaatttgtg	gctttaagtg	atcctcccac	cttggcctcc	aaagtgotcg	ggttacaggc	420
gtaagccaac	gtgcctggcc	tgnatttatt	ggaattcctt	tttncattct	catcttaatg	480
cattttccaa	atngagaagg	acatccttct	ggcttacact	ttnaaaaatt	nccgttttca	540
tggn						544

<210> 10219

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10219

gtggtattaa	aacatatatt	tatattataa	atttccattc	tgaaaagcag	atcaaaatga	60
cactggacca	tccagtcagt	tatggagtaa	tgggcttcct	ccaaagagaa	ctgacttggc	120
agaaatttag	gttggttaga	atgtgattaa	catggagtaa	acgagatcag	gttgtcagta	180
taattttcat	aaggcttcta	cccactccag	ttgtaaggaa	tagtactgag	ggaactccaa	240
cagaatgtct	tagaaggatg	cttctcagag	acaaagggtc	totaagttaa	actottgacc	300
cctottctcc	ttacctaaag	cttgggggaag	aaaataaata	tttaattttt	aactattcag	360
agctttgggc	acattataat	aattaaatat	tctggagggt	aaattttotga	cccttggctt	420
ataaaatttc	taacntacnt	tttaaaaagg	nntcaatggc	ncctttttca	gtaggncccc	480
cttgaaattt	aaacctnggt	ctttcatatt	tt			512

<210> 10220

<211> 520

09629469.072800



<400> 10223

aaagaatgtg	ctgcttatat	gcaatgggct	tattattcct	gttgtaatt	ggaattggta	60
tacagacatt	ttccaatcct	tcaggtttca	actggcaa	gccagcagac	ataccacag	120
agccagagct	cctcaggctc	ctccacgtcc	aacggcgtct	cacagtccctg	aggatgagga	180
cctgggtgag	gggagcacgg	gagacacagc	catcaaggca	tccacctcca	ggacagacac	240
cagccaagaa	ccccctcagg	gcaaggcctc	tcacaagtcc	aactccacgg	attccaccgt	300
aagtgtgtgc	aactggatgc	gcattttaca	aatctgagtt	ttctcaaaga	agctgaagct	360
ttccgtgtcc	tcagtgtatc	tggactccca	gcgccgtacc	actccctgcc	agccacacag	420
ggggacccac	aggaagcagg	ccttncccg	ggcgggccnt	gctgctatcc	ggcttccttc	480
tgngcaancg	tcctgaccgg	gaaaggntga	gccaccant	ggatcctggc	tnga	534

<210> 10224

<211> 488

<212> DNA

<213> Homo sapiens

<400> 10224

cggagggcag	aacaaattca	gactttattg	tcagggagag	gaaaaagggg	agggccgtgg	60
gtggggggcc	tgggttgcta	cattgtcaag	cagaaagagt	tgatgggaag	gggaagacca	120
gtgtaggcca	gacccctccc	gggtcggcgg	ctgaagggtt	gacgatacgg	aaaccacgga	180
gtcgggggtg	ggggagaggt	gtcacacccc	cgcccagatt	gtgcagtgga	ggtgactggt	240
gggaggggac	agccatgagg	tctaggaact	tgaatcgggg	aggctacaga	ctcggcgaat	300
cctgcgaagg	ggaagggcgg	nggcgaggct	tctattgctt	tttgcgcaca	gttttgcgga	360
aggcgaggcg	gnngtgggct	tggactggac	accccttgcc	cccctcggtg	ccccttgggc	420
natggtgctg	gtgaaaagaa	tggaaaccgg	acttgganga	anaaagccaa	nggaaagnct	480
attngngn						488

<210> 10225

<211> 471

<212> DNA

<213> Homo sapiens

<400> 10225

aaatcttatt	tcagaaaact	tcctcttggg	gtaggaaagt	acacatgaag	cagcaaagta	60
acgaagaaaa	acttaaatag	ggccttcaga	gatccacac	actacaaaga	ttctgccaag	120
ccataagata	agtgtgaagc	ccagtataatg	tcagctttt	ctcctcagga	catcttcagt	180
gtttcttctc	ttttaaacac	cacatcaggt	tctagccaca	gacttgtgtt	ttgggtgtgc	240
ctgctttgag	gggtccatgc	ccagtgtgtc	tgctgggtgac	ccaggactca	gcagtaatga	300
ctaacggccg	cccttcagga	tcacagatgt	gcttgggtgt	ggtggcaaaag	catggcactt	360
gtgtgcagtg	atgagaagca	gcacacggca	aggctgagcc	ctttatcagc	aggcctccgt	420
anagcgtgtc	tgcgttgnc	gctgccaang	gnctnantgg	ntggccgacc	c	471

<210> 10226

<211> 530

<212> DNA

<213> Homo sapiens

<400> 10226

00629169.072800





aagggcagaa	gcactttaat	cctagaggga	gggtgaggca	ctgttgaaaa	gagaagcaaa	60
ctttggcagg	ggtggccatt	ctgccttgct	gagtcattgg	ctgagatacg	gaagtcactt	120
tcaatcattt	tctacttctc	ccagggcact	cagacaaaat	cagtgcagg	tatatggaag	180
tacagatgta	ctgnatcaga	ctagtggagg	tgaaaagggt	tctgcagtat	aattaaccag	240
ttaatatgca	gcatgaaagg	gaaaagtggg	cattactttg	gcacctgcaa	acgtaaaaag	300
tgggagtaaa	gagagaagga	aatatattact	agttagtact	ttacgggtgag	gcaaaaagta	360
gtatccgttc	cccttcacca	agacactgnc	cactgnccac	tggccacagg	ngactcaaat	420
caaaccaga	accaccaccc	cttcattctt	ctcttcacat	tattcagaac	aantattatg	480
ctantancca	tgactaagtc	cctggggaaa	ctnttcaaaa	gaattggcct	tnggt	535

<210> 10230

<211> 257

<212> DNA

<213> Homo sapiens

<400> 10230

aagacagagt	ctcgtccgt	taccaggct	ggagtgcagt	ggtgccatct	cggctcactg	60
caacctccgc	ctcccagggt	caagtgattc	tcagcctcct	gagtagctgg	gcctacaggc	120
gtgtgccacc	atgtccggct	aatttttgta	cttgtagtag	agatgcggtt	tcaccacata	180
ggccaggctg	gtcttganc	nctgacctca	ngtgatctgc	ctgccttngc	ctcccaangt	240
gctgggatta	caggcnn					257

<210> 10231

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10231

aatccaaaca	ccaacttgaa	caagagactt	tcagttttta	aacattttta	gngggaaacc	60
ctgcctgtca	atgcatcatt	attgcccttc	ttgattgctg	nottggtaga	tgattcactg	120
ccctcccta	naagaggact	atgtgtcatc	tgcttgcccc	atgacctcag	ccttgggccac	180
atgacttgng	gtaccagtct	ntacagaaga	aggatgcctc	cttatatgca	aactcagggtg	240
tggccatgtg	atctgcactg	gccaatgaaa	tgtgggcaca	agtgcacac	gntattttcca	300
agcataagct	tanagcctat	gaatggtttg	ccaggtttgc	ctttcctcct	tcacctttcc	360
tgggtatagg	acagaagaca	ggaaggagca	gaactatngc	agaccccagt	tgacacacag	420
nacaagcaag	caataagcct	tgctgntgca	ccctgggggt	ttgctttaca	gnntaaccta	480
gtttaaaaga	ctggggaccgt	ctttacatgg	gatncccaa	ct		522

<210> 10232

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10232

caattgcaca	gatatttatt	gggtggcacc	atgcaagtta	aacaactcct	tgcaaggcac	60
tgtgaagtta	aatacaacag	gcaaataatg	tcctttcaaa	gggaatgttg	ttccttagta	120
cagaacaatg	gccaccagg	tttaggcatt	ctctcctccc	acctggaggc	tcacctgac	180
atctgaattc	ttctttccac	aggttgccct	ggattcagtg	acctttcttt	ggagattttg	240

003220 59452960

aggaattttc	tgctgacctg	acttcttctt	cttcttcttg	ttcttcttct	tttacttctc	300
tttcatcttg	attttctttc	tcttcttttag	actcctttct	tgatgtcatg	actaattcct	360
ctagatcttt	attttttata	agggatatgat	gaagtcttct	atatgcatct	tcaaacttct	420
cctctgcctg	ctggctctat	tttcaacctc	ctgatatgga	agagaagacc	cncnaaattg	480
aaaggggtgn	aaaaagattt	ttggatttgg	aactcaattt	ntaaaanggc	nngggaat	538

<210> 10233  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 10233						
gagagggagt	ttcactcttg	ttgccagggc	tggagtgcaa	tggcgcgatc	tcggctcacc	60
gcaacctccg	cctcctgggt	tcaagcaatt	ctcctgcctc	agcttcccga	gtagctggga	120
ttacaggcat	gcgccaccac	atccagctaa	ttttgtatit	ttagtagaga	cagggtttct	180
ccatgttggg	caggctagtc	tcgaactgct	gaccttaggt	gatccgcctg	cctcagcctc	240
ccagagtgtc	gggattacag	gcgtgagcca	ccgtgcctgg	caggaccggt	ggtttttaat	300
cttcgagtct	caatgcctgt	ggagaatttg	acgaaagcta	tgggtatcta	cccaaattaa	360
catccacgta	cacaaaaatt	tggtgtacaa	tgctggggagt	agcggggagg	gggagtagca	420
cagattccca	ggctttgggg	atgggggtga	agatttatga	acncagggtt	gtttnaatcc	480
aaccagaatc	ctaaggtttt	ttcccatggt	tgaggggggt	ttaatggggg	aatgna	536

<210> 10234  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 10234						
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn						548

<210> 10235  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 10235						
gccctctgag	aaataattgt	ttaattgtta	ttatatTTTT	tttccaagac	agtcttcac	60
tgtcacccan	actggagtgc	agtggcgcaa	tcttgctca	ctacaacctc	tgctcctgg	120
gctcaagcga	ttttcatgcc	tcancctccc	aagatgctag	gattacaagt	gtgtgccacc	180

008270 " 5945360

acgccctgct	cctntgagaa	ataaatgagt	aaaatgcacc	ccctgtgagt	gagatgatgc	240
atctgacttg	caggaataaa	ccaagtgaca	tctggagatc	actcatggaa	gctggcctgg	300
aacagggttg	tgatttagcg	agggaaagcc	cagtaacctg	tgggtgttcc	tgtcttgctt	360
ctcccatagt	gacttctgga	aattcagggc	ctccttggtc	acatcaatct	cccgcttgat	420
ggcattgatg	tgctgggtgg	ntcgcctggc	ccttttncct	cggtcattta	agaagggtt	480
gggttcnttg	naaaattcgg	tggantcact	acctggtaat	tttaaaactcc		530

<210> 10236

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10236

cattgccccaa	gctggcctca	aattcctggg	ctcaagtgat	cctccagcct	cccaagtaca	60
ggcacatgcc	acaacacctg	gcccgaatta	tcattcttgc	cacataataa	aggggagcat	120
gtttccactg	gtggaatgtc	gtactaaaac	atcagaggct	cataaaataa	ttacatagtt	180
aataaaagttt	taagaaaatt	attaactata	ggcaacattt	tttcatgacc	ttctaagaat	240
caaggtgggt	canagcatct	gacccactgc	ttaatcaagc	tctcctatat	aattaaaggt	300
tactaggtgg	ctttgactaa	aattatgaaa	agggacggaa	atgtcttgtg	gagacacagt	360
atgaatgata	gagcaagact	gcttcacgaa	aatgtaaatg	atcaagttat	tttttcccaa	420
ggtttaggaa	tccctgaagg	gtctgaactt	ntaaatgcta	acntgnccag	gccccattta	480
ccntccgggn	cccaaggcnt	tcctancata	t			511

<210> 10237

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10237

ctttaaaata	ccctcaggcc	agtcccaagc	atagcctggc	cctgaagtgc	caattccagc	60
acccccgtgg	gccaccctag	acaccttggc	cagatctgga	cactcagggc	tgagattcaa	120
ctaggaggca	gaccacggaa	gcaagtttgg	aggggacagt	ccctgacaga	ggctagagca	180
tcattccaagt	ggaggagatg	agacagaggg	aaggagagagg	gaggcctaag	gatttcccca	240
gagggggagg	tgcatgactg	ggcagggaaa	gcagcctgct	cgcttggcgg	ctgccaccat	300
ctctctcctc	ggtggggcct	cagaccttgc	cccattgctt	agggagacaa	tgactggcca	360
cagacacacc	cccacacaca	tttccagggt	agacagaagg	taaaaaacia	aggtggttgc	420
tcccagcaact	gccttgnctg	ggagctccaa	ctatcagagt	ccagtgaaca	agccattatn	480
ggcaagnttg	gnccgtaaag	gtggctgggtg	gtgnngaata	cttgggtggg	taaccaatga	540
aaanccgn						548

<210> 10238

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10238

gcaaccaatt	cagattttta	ctggacattc	atgacagaat	gagatgtgca	tccagctgca	60
tcgcccagcc	catccgctgc	ccagggcagc	tgacgagcag	aaacacactc	tgacgtggcc	120



ctttgtagca	tgtttaaagg	aacctagggtg	atttagtcaa	aagagaacac	tgcatgaacc	180
aaggcctcag	gtgcttcttg	ctgccttcat	ttccacagag	gagaacacag	ggatttagag	240
gagatggaaa	cattttctag	gcagttattg	aataacggat	ctttggagga	gttcgtggag	300
tagtgtaacc	agaaagtctt	taaaattaaa	cccttcta	cgtttgtaag	tgtanatggg	360
gggacttgga	aatctccggg	gcctaatacat	gctcgcaaaa	ggagtacat	taatagcttt	420
ggagaagggg	gcttncnttt	cntttccagg	ttaagtcaac	cgtaacnnn		469

<210> 10242

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10242

cggagcgtag	gtgtgtttat	tcctgtacaa	atcattacaa	aaccaagtct	ggggcagtca	60
ccgccccac	ccatcacccc	agtgtgcaat	ggctagctgc	tggcctcctc	catctgggtcc	120
ctccagcctc	acagcctcct	cctgaagccc	tttccttcca	ggctccagaa	gagcaggaga	180
caaacacacc	ccactgaggc	ccagctttta	taaagtgcct	gatacagagc	caggggacag	240
aaccacagtg	atacagctcc	cgacagccat	cccaggacga	cagagggctc	aggagagacc	300
tcggaagccc	ccagtgaact	cagacaaaagg	ggcaagcccc	aaaggcgcc	ncaacagttg	360
gaaaacctcc	ctgctagagg	gcanaaaagg	aggcctggcc	ctttaagagc	ccagctaattg	420
gcaactggct	naagggtcta	aaaaacnagc	tttanggttt	ggncccgttt	cnttaaaagn	480
ccccaacctt	gaaggagttt	ggccaaaaaa	nccctaaag			519

<210> 10243

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10243

atcttttaac	gttataat	tatttcaaag	aaaacaga	cagaacaaaa	acaacctttg	60
catitgaggg	aggagattat	tttacagttt	tggaaaagaa	taagaacaat	tgtatcagga	120
aacaaatgat	tatgacagaa	actcgcatcc	gacagctgca	gtgaatccac	gaggacacag	180
accatgctgg	tggccacagc	agggccacag	gtgaatccac	aaggaaacac	agaccatgct	240
ggcagccacg	gcagggccac	agggcacggt	ctccatgtgt	taatgtttta	tgtcagcatt	300
ttcatatgga	cagaaatcac	gaagaaatcc	tgcaaaaatg	gcatcaatat	gaacaaaccc	360
ttgttataaa	aagcaaaata	ttgataggaa	caatatcttn	cagcgtgtgc	gtttcacatt	420
tangctttac	tggatgaaac	taagtcaaaa	ttagaagcac	tgggctatct	tccaccgaca	480
tatattttac	tggatataac	cttcaagggt	tttcttaacc	ataggcttaa	aaggattctt	540
ttttcccaat	gngaccngac	ccc				563

<210> 10244

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10244

gagcaaatgt	tgatttatta	cctcaggttg	taggcattta	caagacaaaa	cggagacatc	60
cagtgtgatt	ccaagcaggc	tcatggacta	gtgcttacca	taaccacagg	gcaccagcaa	120



gagatggagt	cttgcctctgt	cacccaggct	ggagtgcagt	ggcatgatct	tggctcactg	60
caacctccgc	ctcctgggtt	caagtgattc	tcctggctca	gcctcctgag	gagctggcat	120
tccaggcatg	tgccaccaca	cccagctagt	ttttgtatit	ttagtagaga	tggagtittca	180
ccatgtttggg	caggctggtc	ttgaactcct	aacctcaggt	gatctgcctg	cctcggcctc	240
ccaaagtgc	gggattacag	gtgtgagcca	cagcgctcaa	tctttccttc	tttcaagctg	300
caaataaatt	tatggaaaat	gtgaacactc	atctttcta	gcttccagaa	aaatgaaatt	360
gagtaaaatg	gaagtgatgg	cataattctt	ctttcagggc	tatggagctc	ttgaagaatt	420
ttactggtaa	taaagatcac	cagcagcatg	gacacccaga	agagaattgc	aaagaagtaa	480
gtgggaaaga	agatgtcaac	ataggcncgt	atgactacng	gggaaaatgn	cgtctttaaa	540
caatggcaat	tggagcmta	antggccct				569

<210> 10248

<211> 532

<212> DNA

<213> Homo sapiens

<400> 10248

gctgaaagt	catttagcaa	agaactaaga	tataaaaactg	ttaaatactc	atatgatata	60
cacatacatc	agaaagaatt	tggcaataag	ttaacaccag	caatgtctgg	aggttgggtt	120
attcgatttt	ttttgtttcc	cttttcttta	ctctatccag	aagcaggggc	tataattgtc	180
acggggaccct	tgggatgtcg	atttgccagc	cagaaacctc	tgtggcaggc	agcgcttct	240
gcctgagtat	tgctcgcgcc	cacagggctc	gttccaccca	cttggcctgg	caggctgcgc	300
ttggctcaca	ctactggcct	cgatctcaca	cctgccaaagg	gggagccagg	cacggagtgg	360
caaagagtgt	atgagcgaat	gagcatgggg	tccagccact	gtgcacagcc	acgcatgcta	420
gctgctgtgg	caaggcagac	agcttcaggc	accagcacia	gtgccagctt	catgcaaggc	480
tttggcttgg	ancaaatgnt	ccacacatgg	ntttaactnt	nngcanctgg	at	532

<210> 10249

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10249

gagacggagt	cttgcctctgt	cacccaggct	ggagtgcagt	ggcacgatgt	cagctcactg	60
caagctccac	ctcccagggt	catgccattc	tcctgcctca	gcctcccag	tagctgggct	120
acaggcccag	caccacaccc	agctaatttt	tttgtatit	tagtagagac	gggttttcat	180
cgtgttagcc	aggatggcct	tgatctcctg	acctcatgat	ccacccgcct	cggcctccca	240
aagtgcctgag	attacaggcg	tgagccaccg	cgctcggcca	tgatttactc	ttttttttgt	300
aatttttcaa	actaccatat	aataaacatg	tctttcttta	cttttttttg	agacaagggt	360
ttgctctgat	gactgggctg	gagtgcagtg	gggcgtgagc	acagctcact	gcagtcttga	420
cctcctgggc	cttgatcgcc	tgggtcttga	ccttctgggc	cgaccttgag	ccctctgggc	480
ttaacaatcc	cctgcttaac	ctttgagtag	tggaccataa	cggngtacca	tgtttgtaa	539

<210> 10250

<211> 555

<212> DNA

<213> Homo sapiens

00629469.072800

<400> 10250

aagctctcaa	ccagttttat	ttttcctcac	aatgaacgga	agaaaaaggc	agaaataaat	60
ggtagggtca	tttgctagta	gaaaagaaag	ctgggattcc	ccatttactt	tggagactga	120
ggagaaagaa	ctgctttccc	cactcgtgtc	tgggcaaagg	gtgtgcccag	atgttggcaa	180
aggaaccaga	caaaatcaac	agccagcagt	tttctgttcc	aaacagttag	ctcctctaca	240
gtccagaggg	aagctattcc	tgagttcatt	caagggtgaca	gcggaagtgt	ttctctcctt	300
ctgcttggcc	caactgtgcc	tgagggtgta	tggatccaga	ccttgtaaac	attcagctag	360
gtgtaacata	accagaaagg	ctgaaggaag	gctcttggcc	ttcccagctt	gagaagtagg	420
ggcctcatgt	gtatctggtg	gnctgcanag	cccaaagcag	anagctatga	tgaataaaat	480
attttaatgn	tttctaaaat	aactccttta	tatccangga	tncttcagta	nggccttatt	540
atcctaaagc	tcttg					555

<210> 10251

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10251

gagacagagt	ctcactctgt	cacccaggct	ggagtgcagt	ggtgcaatct	tggctcactg	60
caacctccac	ctcctgggtt	caagcaattc	tcttcctcag	cctcccaagc	agctgggatt	120
acaggcacgc	accaccacgc	ccagctaatt	tgtgtatttt	tagtagagat	ggggtttcat	180
catcttggcc	aggctagtct	tgaactcctg	acctcaagtg	atccacctgc	ctcagcctcc	240
ccagcgtgct	gagattacag	gogtgagcca	ccacgcctgg	ccaagttggc	tttcttttac	300
acaacatgat	gcctagtggg	ttcacccatg	tttctgtgtg	catccgcagt	tcatttcctt	360
ttattgggta	ggtagcattc	cattgtgtga	acacgccatg	atttgnttac	tcattccact	420
cctgaggggac	atttgagttt	tttcccctta	agotttttgn	aaattcaagc	accctttcat	480
aatttggctt	catctttctt	caagggaatc	notttttttt	tctcaaaagg	atccngaaca	540
ataggnattn	aanccttcct	ggaancgggc				570

<210> 10252

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10252

gtatTTTTtag	tagagatggg	gtttcactgt	gttaatcagg	atggtctcga	tctcctgacc	60
tctgtatctg	ccgcctcag	cctcccaaag	tgttgggatt	acaggcgtga	gccaccgcct	120
ctggcctctg	tgaaggcttt	cacaatgccc	tgggtcacct	caccagagaa	catgcagctc	180
cgaatactgg	ggctcccacc	agcctggggag	accaggaga	gcagggctcg	gggctgactc	240
atctgtgtcc	ccagcttctg	ccagcacagg	gcctggccct	caggagacct	cacaggatgt	300
ggctgaaagg	acctgaatgc	acccccagct	ggggccacat	tcctgtccca	acacgccagt	360
gccaccctc	tgccttgggt	gcccaggaga	cccagctgtc	tccttcctgc	cctgctgagc	420
tgaggccact	gggagacaga	tttacacaga	aagtcacacc	gggggtgaag	ggcttttggg	480
ggctcaaacg	actgtgggaa	cttgggtattg	ggagcgcaan	ccaaccttgg	gggacaaggg	540
aagnttttng	gccaaaaacc	ontaat				566

<210> 10253

<211> 570



<212> DNA

<213> Homo sapiens

<400> 10253

gagatggagt	ctcactctgt	cgcctaggct	ggagtgcaat	ggcgtgatct	cagctcacca	60
caacctccac	ctcctgggtt	caagcgagtc	tcctgcctca	gcctcccag	tagctgggat	120
tacaggccac	aaccacgcct	ggctaatttt	tgtatttttt	agtagagatg	ggcttttgcc	180
atgttgacca	ggctgggtctt	gaactcctga	cctcaggtga	cccgcctgcc	tcagcctccc	240
aaagtgctgg	gattacaggt	gtaagccacc	gcactcagcc	atgcctgctg	tttctcaaaa	300
ccaagacctg	ggggaagtgg	agaaagatgg	atgttttgga	aatgaatggg	ctcaagacca	360
acaagagtga	ttgcaggtct	cagatagtg	ctctcccacc	ctagtcccga	cctcctgagg	420
aacccttcag	gacatggcct	gcaaaagact	agggtgagca	gggtatggca	ccaagcacc	480
attggnccag	ttggtgccac	gcattcccg	gactgggaag	agacaacgta	nactggactt	540
accctntaan	ggggttaaac	cgggggggnc				570

<210> 10254

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10254

gagacagagt	ctcattctat	tgcccaggct	ggagtgcaat	ggcacaatct	tggctcactg	60
caacctctgc	ctcctgggct	caagtgattc	tcctgcctca	gcctnccgag	cagnccgggac	120
tacaggaata	tgccaccaca	cccagcta	ttttatattt	ttagtagaga	cagggtttca	180
ccatgttgat	caggctggct	ttgaactcct	gacctcaggt	gatccacctg	ccttggcctn	240
ccaaagtgt	gggaatacag	acgtgagcca	ctgogcctgg	cccctcattc	ttgaaagacg	300
gattttctgg	gtacacaatt	ctaggctatc	actattttct	cccaggactt	tgaagatatt	360
atttactatc	tttctggctt	ccactgntgc	ttttaatcaa	ctacttattn	tcttctttcc	420
ananaancnc	tttcttttnt	gccttaa				447

<210> 10255

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10255

cttctctttt	ttgtcgccca	ggctgagtg	aatggtgcaa	tcacggotta	ctgcagactc	60
gacctcctgg	gtcagcctc	ctgaatagct	gaggctacag	gtgtgcacca	ccacgcccag	120
ctaattattt	gtactttttt	gtagaggcag	ggtttacta	tgttgcccag	gctggctctca	180
aactcccggg	ctcaagcaat	ctgtccacct	tggccttcca	aagtgtggg	attacaggct	240
tgagccaccg	ccccagcccc	ttcgtcttct	atatttagaa	acagtgttct	tggaagcaga	300
cagatgctct	gaggcctgag	ctcgtgttta	tggcaagcaa	cacagccaac	catgcacagg	360
gaggctcatgt	ctggattaga	atggccgacc	cattctaattg	ctotaaacga	cgcattttca	420
aaagctttga	cactggatct	taagaaaata	agtaaactcc	ttggtacaaa	agcnottaag	480
aaaattaatt	acattaaaca	cagttcagga	agcaccgtgt	gatctggcca	tgccaggcag	540
gcaaaggggn	tttcaggggg	gc				562

<210> 10256

<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 10256

agagacaagg	tctcgctctg	ttgcccaggc	cagaggactg	tggcaccatc	accactaaat	60
gcagcctcga	cctcctgggc	tcacgttata	ctcccacctc	agcctcctga	gtagctggac	120
tacaggtgca	caccaccaca	cccagctaag	tttttatttt	tttagagaca	gggtccttgct	180
atgttgccca	ggctgggtctc	aaactcctgg	totcaagcaa	tcctcccgcc	ttggccttcc	240
aaagtgctgg	gattacaggc	tgnTTTTAAC	gtgtattatc	ttattactag	tatatattac	300
ttgttgcccc	gtctgcccAA	aaaagacacc	actgaagtgt	atatatgttg	caagttcctc	360
tccagtgaac	ctnctaccaa	ctccacagag	tcagctacta	gtaacagcat	gngtatacct	420
tctagaactt	tccacaagcn	cacacaaccg	ngtaaataatg	aaggttccca	gaccaacctg	480
cccaccgggn	ttttnaaaaa	aaaaaaagng	ggaatttncc	aaaggcctgg	tttgaacggt	540
tcccc						545

<210> 10257  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 10257

agataaatct	gttcagataa	gctccttatg	aatccttcag	atcgatgttc	ttgaggaaaa	60
cagtcaagct	aaacagcaat	gatgactttt	atggtaaagg	atgagctgat	cactagctaa	120
gctacttagt	caccatcctg	ggagatgagc	tcacaggcac	caaggctttg	cttcctgttg	180
cctgctagtt	acagtgaacc	agctccatgg	attgacaagg	gtacacagga	tgacagcaga	240
gcaaaggagt	ttgccaaagta	tttgttctgt	cattaagtat	tcaaaagaac	atatattttt	300
cttcattgga	cataactttc	taagaatgaa	atttggggac	ttgaatgatt	caaggTcaaa	360
tattaaacat	tagctccttc	accaatacct	gncattgnca	ttagaaagga	aggcctcttg	420
gttacgctac	tggngattca	caagggctcct	ttgtcggcca	agaaggcccc	tttgnngcct	480
ggctttaact	ggcaatggaa	gcctaaactt	ttgcccttag	gcattctangg	ctttccangg	540
ttggaagtgt	caacccaatg	gtg				563

<210> 10258  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10258

gaaacatgag	ctcacttggt	gctctcttggc	ctctttattc	ccatctcctt	aggctgaccc	60
tgacaagtgc	cagggccagg	cttggaccaA	gcagtcaact	gagtcagcct	gccctgggaa	120
ccaggcaggg	gagggagctt	acggacgggc	taggctcagg	agagtaagag	agagcagatg	180
aagggcagaa	gtccgtggcc	gcagaggcag	ctgagcatga	gggatggagc	gtgctgctgt	240
cctgcaggtg	ccgttagccc	tgtttttgcac	tgggtggattg	atctgctcag	gcgcacaggg	300
agatggcaca	gcaggacccg	ccgcccagcc	tcgctgaggg	catgctcccc	cctcacctcc	360
agaggctgtt	gggcggaagc	cgaaaagctg	cagcagtttg	ggccagcgtg	ggactggang	420
cccaggtgaa	tcttgtgggg	caagggacgg	agcttaagct	gtcccggccc	gggnccttcc	480
canccaaagg	ncctaaaacc	ttagccttta	atccttgggg	ggtttgcttn	tcctgaanc	540

ctgggggtttt ctga

554

<210> 10259

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10259

gggccaggcc	gggggaaggt	gagggttga	aggcagaagg	aagtgacaaa	ggccacctca	60
gcacagcagt	gagaggagct	gaggccaagg	gaggcagtc	cacaccctag	ctctgcaaga	120
cctccaagat	ggcccgagg	atggcagcag	ctgccaccgc	cccggggtct	ggctgctcca	180
gccgtgctga	gctgatataa	ctggctcttc	cggtctccagc	ttccatattc	ttggtggcct	240
cggtctcagc	ttcggcactc	ttgactgctt	tggtcaggac	ttgtaacaga	tcagctcctg	300
ggctcttcca	ggcttggagc	tcctgccccg	ctgcccacag	agaaccacagc	atagtccctgt	360
cccctggagc	agccttgcca	tacttctgca	tggtctccag	gcccggcatc	catggcagca	420
gaccaggctg	ggaagctggt	cttggccttc	agggcttgtg	caaccccagt	caggaacang	480
ccataaacgc	cccaaataaa	ccttccatct	tttcaagagc	ngaccgacaa	cttggaanaac	540
aacttgcaag	gcttgcaang	gggtgggccc	tcctn			575

<210> 10260

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10260

acaattctca	tattttattt	tgttaatgca	tgataaaaaa	ttaacgtcat	cattcagatc	60
cattatttgg	aatgaagaat	ttagtatttc	ctgactgcct	aatttggcac	tttgaggaat	120
ttcctctgca	cgctgagccc	caaaatgcac	tattttctag	accaaaaatg	aaaacgtgcg	180
tatatacaag	tgagctgaaa	agttacaaca	caagatgatc	attttgggtga	aaaataatcc	240
cccaaataaa	gcagcatgtc	atgtccttag	aatatgttac	actagaaaagc	tagtaaaaaat	300
tcaggctaag	gaggcaattt	agagttcaag	ttttatcaca	tatcagcaaa	gttttagcct	360
tccttataaa	acagacacct	tcaaagtga	atcttgccag	aagggttgat	ttttaattat	420
gngtatatac	aaacttctct	attttaacat	tcaacatatt	caggattaan	tctagaaagg	480
agctatagct	gattattaaa	ccaaatggtt	aggaccgaag	gaaattgggc	ccccaattca	540
tnganncctn						550

<210> 10261

<211> 476

<212> DNA

<213> Homo sapiens

<400> 10261

attttaatat	tttttattaa	gggctataaa	aaataccag	aaagataaat	aatgngatg	60
caatgatatc	tggcctaata	tgaanaactt	tctttcactg	nattgntttc	cttcacaatg	120
gccttcaaat	cacaggaggc	agtgattcca	tgccatttcc	tcttctttta	ttacacgcta	180
caggatttct	gaatcagtat	ccccgccctc	agtcttctct	ttataaatca	aagtcatttt	240
caatccaccg	tttaaaggga	gcgtattttt	ttcttttcca	cgaanaggac	tctttgnttc	300
actatggagg	gagaaaaaaa	aattgnggca	gaaaattatt	aagtatcatc	gccattttta	360

000220"09462960

taaaaaatca	tatcagacca	taagccctac	ctttctotta	atttactatt	cctggatatg	420
aaaaatggag	ctgatttggc	aactcagttc	ctccatncca	ggagccaggg	cagatn	476

<210> 10262

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10262

ctgagacgga	gtctcgctct	gttgcccagg	ctggagtgca	gtggcgggat	cttggctcac	60
tgcaagctcc	gcctcctggg	ttcatgccat	tctcctgcct	cagcctcccg	agtagctggg	120
actacaggcg	cctaccacca	cgcccggcta	atTTTTtgta	ctttagtact	agagacgggg	180
tttcaccgtg	ttagccagga	tgctctcgat	ctcccgacct	tgtgatttgc	ccgccccggc	240
ctcccaaagt	gctgggatta	caggtgtgag	ccacggcgcc	cggctggtgg	tttcatata	300
tttacaatgt	tgtgcaacca	ccacccatt	atctaattcc	agaacatagc	ccgtcacccc	360
aaaaaggAAC	cttgcattcca	tcattcagtc	ctctctattt	cccctacccc	acttncctgg	420
caatcactaa	atcacttttt	ggtcatatgc	cattgnttaa	taatggacat	ttcatataaa	480
tnatacacia	ngggg					495

<210> 10263

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10263

gccaaaacaa	actttattgc	nccaaaaagg	aaaacaaaaa	aaacaaaaaa	acttcattta	60
tatacagtca	gatntaaaga	catntntttg	actcctgngc	atatatttcc	tcaactcaag	120
attagggcat	aaaagtcagg	ctgctatgcc	anacatgctn	tgccctatgg	cagggccaag	180
gagaggattg	tcacttgaaa	gngggaacnc	ttaaattggat	gacagacaac	actggacca	240
cagaccaaga	gcattcttnt	aagccctgga	gtagctcgag	gaatggaaga	gggaaattgg	300
aagcagggtc	cttttctgat	cttcatgtga	agagaccag	ccntttcaag	ggtatccaag	360
ataaacttcg	ttcccccagg	cccaccaatc	cctgnccagt	ccittgnttt	ctgccttcn	420
aataggacat	tctcctttgg	ggccaagccc	ccnttgnaca	aaatcctcca	ngg	473

<210> 10264

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10264

caggttttta	tttttttatt	tcttatattt	tttaagacgg	agttttcactc	ttgttgccca	60
ggtgcagtgc	aatggcatga	tctcgactca	ctgcaacctc	cacctcccag	gttcaaggga	120
ttctcctgtc	tcagcctccc	aagcagctgg	gatcacaggc	atgcaccagc	acaccagcc	180
aattttgtat	ttttagtaga	gacagggttc	ctccatgctg	gtcaggctag	tctcgaactc	240
ccgacctcag	gtgatacacc	cgctcggcc	tctcaaagtg	ctgggattac	aggtgtgagc	300
caccatgcct	ggcccctggg	gacacttttt	tcagaggcca	gatgtcaact	tccatctcca	360
catgcctcaa	gtttacacat	cattgcattc	cagcacagag	ccccatcatg	taaggntac	420
tttgggttat	tctggccctg	tgagaagaaa	ctattggcag	cnaaagccat	actggccttt	480

ggcaactttt cccaagt

497

<210> 10265

<211> 489

<212> DNA

<213> Homo sapiens

<400> 10265

gagacagagt	cttgctctgt	cacccaggct	ggagtacagt	ggcatgatct	caactcacca	60
caacctctgc	ctcctgggtc	tcctaaatcg	ctgaagcggt	tctcctgctt	cagtctcccg	120
agtagctggg	gttacaggca	caagccacca	cgcttggtta	gttttttgta	tttttagtag	180
agttgggggt	tcaccatggt	ggccaggctg	gtctcaaact	cctgacctca	agtgatccgc	240
ccacctcggc	tcccaaagt	gctgggatta	caggcgagag	ccaccacacc	tggcataaaa	300
tacattcttt	aaattcatat	tatctgcttc	tttttacttc	ttttaatgtg	gctcctggaa	360
aatctaaaat	ttgatttttag	atctatggct	ccattatagc	attcctattg	ggcagtgcgt	420
gtcttccttt	ccatgagaac	ccttttagctg	ggaaaagttt	ttctggacta	attttttttn	480
aaatttttna						489

<210> 10266

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10266

aaagaagccc	aaacacattt	tcttgctgta	tttatgttga	attccccatc	tacaatgagc	60
agtcacgaag	atggtcttct	tcagggcaac	atggtcacag	gactggggga	atccagggga	120
ctgagaggga	gcgtgaggat	gggagggtgg	gctacctcct	gctgtttcac	attagagaca	180
aactgtaaca	cagtccatgg	gcctgcaacc	gtcccccttt	attatctggc	ataacgcgtg	240
atgtagttgt	ccactttatt	ctggaagtcc	tccttgtcct	gcaaatgatg	ttctgtagct	300
tcaatattca	gtggatcatc	aaaattcaaa	aatcagtaaa	caaagagttt	aatccccaaa	360
cgacatcctt	taatgntctc	atgggagccc	aaccagtgcc	cgcaattgna	tggtctctca	420
gtaactcaga	catatttccc	tggctttggg	aatgttgggg	tgccanactc	tggtcaggcn	480
tttacttttg	g					491

<210> 10267

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10267

gagacggagt	ttcactcttg	tcacccaggc	tgaagtgcaa	tggcatgatc	tcagctcact	60
gcaacctctg	cctcctgggt	tccagcgatt	ctcctgcctc	agcctccaga	gtagctggga	120
ttgcaggcac	ctgccaccac	gcctgggtta	tttttgtatt	tttagtagag	acgggggttc	180
accacgttgg	ccaggctggt	cttgaactcc	tgacctcagg	tgatctgccc	acccagcct	240
cccaaagtgc	tgggattaca	ggcgtgagcc	actgcaccca	gccaaaacgt	ttttataaag	300
aggttttaaa	aagatgggta	tgtgtatatt	atgtgtatatt	tataattaaa	aagttggggg	360
aaacatttta	aaatagtgac	catacccaat	tgttggttaag	gctggggggca	accggaattc	420
ataccactgn	taatagaaat	gaaaaaccgg	ncaactactt	nggaacagtt	tggcaagttc	480

ntttctttct ttnnn

495

<210> 10268

<211> 431

<212> DNA

<213> Homo sapiens

<400> 10268

ggatacatca	aaggtcttta	ttagcatagg	aacaacacac	ggtgtgcatc	tgtgtgttcc	60
ccaaatgcac	acaaaccctg	tctctctcaa	gaatcactga	tgtatttcat	cgtagagttg	120
agaatttcta	ggccatgaag	ctttctcagt	tgagcagcaa	atctgggctc	agctgtgcac	180
agcttcccca	gagcaatgcc	tgcgttcacc	tgacaggccg	tcttctgtgt	gtcactgcct	240
gcaagcttta	acaagacctg	caaaagggtc	gtcttttagca	gggaagacgc	aacgttgggc	300
acctccatgc	agttaccaag	gcagagggca	gcgttgccca	ccagaacctc	atcctccgag	360
ctgagcagct	tcatcataac	gctcaacttt	ttatccagtc	ttantacttn	tncccgagct	420
tnangnanac	c					431

<210> 10269

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10269

gagtctcgct	ctgttgccca	ggctgaagtg	cagtggcgcg	atctgggctc	actgcaagat	60
ctgcctcccg	ggtttacgcc	attcttctgc	ctcagcctcc	caagtagctg	ggactacagg	120
tgcccgcgcg	tacgaccggc	taattttttg	ttattttttt	tagtagaggc	ggggtttcac	180
cgtgttagcc	aggatagtct	ccatctcctg	acctcgtgat	ccgcccgcct	cggcctccca	240
aagtgtgagg	attacaggcg	tgagccactg	cgcttgccct	aatttttact	tcgtctggct	300
tgttcactac	tttggcccaa	cagctggctt	aaccgcgcat	tcgcctgaca	cactagaatg	360
acacagtgga	atttttggat	ggtaggttta	tgtggcttca	aaaacaggaa	gtttctactc	420
taggtcctaa	ctagaaggat	tnonttagaa	acataaaaatg	caaattnagc	aatctataan	480
aagtnggtaa	aaaaagttc					499

<210> 10270

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10270

ctttcccatt	tggaacaagt	gcccatacaa	ggcttaggag	atataaaaaga	tgtacaagaa	60
caactccaag	atccctttta	agagtctttc	atctttctgt	aaaaactaaa	ccaagataca	120
taacatatga	gtgtcacata	tcgcatgcta	attcagaagc	aagctatatg	aagcaatagg	180
aaacacagag	ccgtcagagc	gggaaagccc	tggaggcacg	agtcagcgat	gacaccacag	240
ggtattcaag	gagcaccaat	ggcctgcagg	tggcagaaac	aatggaggaa	ccagcctgag	300
tcaaggaggga	ctcactaggt	aagcttggga	aatagggtctg	aagacgtgga	ctgagcagtc	360
gatggaaggc	tcggaagtca	gacatggntc	acctgcgaca	ggggcctnaa	caagagaccg	420
gtntnaaggc	actggtttta	ggcctnnggt	ttaaaacccc	ggttgccttn	aac	473

<210> 10271  
<211> 445  
<212> DNA  
<213> Homo sapiens

<400> 10271  
cacagtccta cacataattt atggtattca gaacatcaact ttataaactg ttgccaaatt 60  
accacttaaa cactaatatc caaatacaga atttagaaaa ttatttttaa ttttaactct 120  
accatccccc cgagctctcg gctatgaatt tagtotggga agagggctcc gtaataggcc 180  
actgagggtcc tctgtccac cacatcatcc tccccgaaa actagctgcc cgactgctct 240  
accagacttg ggctagaatt tggcttcacg gtggcaatgg gaccacctgg gccctacagt 300  
gtggcaaaat caacttgccc acaaaccoca tcccagggtgc tgggatgcta acacactgaa 360  
gctgaaagac cacacttggn tttgocacag atcaagctgn atntgactag acaggctggt 420  
ctntacccta tttntgnaa aangc 445

<210> 10272  
<211> 493  
<212> DNA  
<213> Homo sapiens

<400> 10272  
ggctttggct ntagagcatt tattgnaaac aaaattgagg taaaagaagc tgaccanana 60  
cccacgcccg tccaggctgg ggaagtctnt actngcccca caccaggccc cgagcacccg 120  
gggcccnaag cagccccan aggacanacg ggccctgogc actgaggtag ctgcatntta 180  
agcccccatg agtacaactg cccagggctg cccaattccc anaggggagg aggagagaga 240  
ggcaggcagg gggagccccg gcttnaggng gggcacacc caccacctta acaaacctnc 300  
cagcctttng ggctgggcac ttntgctcg gncaccacag cagccatggg gcaacggggg 360  
ggccacaaa agcgggcctt cttgggtcca agncacttgt tgttcaagca atccttgggn 420  
acccttggg aagcaagtta anccagacgt tttgaaggta ntgggggtcn ggataaccgn 480  
ggccctaattg ttc 493

<210> 10273  
<211> 429  
<212> DNA  
<213> Homo sapiens

<400> 10273  
cttgggtacat gattttatag gaagcacatt tgtgttcaag tgaaggcaga ggcgctccacc 60  
ccaagtcacc agagcgcagg tgcagagagg aaaagctgtc agctagtgcc agcctccaag 120  
ggccagcgct acccttcaac agctggaggc accactgtgc gaggtttcc acaccggcct 180  
ccctcaggaa caagacatcc tcaccaggca ggggtgaggt atgggtcca ggactggctt 240  
cagcaggcac caggctgggg caccagctgg ggocctgggt cggccagaag gtcacacaga 300  
cggttgcgct gctctctcac cactgcaagc totgctgcc acgcagtgtc actgagcaca 360  
gtcaccacct ngtccaagac atnccggccc acgaagtnac ttgangngaa ccatgnnttg 420  
gacccttg 429

<210> 10274  
<211> 490

000220" 59462960





<213> Homo sapiens

<400> 10277

agcatgcaat	tttttattgg	tttctaaatc	tatttgtaca	cttaatatgc	tagtattaat	60
ttcacaaaca	gtataaagaa	tgtactccaa	tgatattacg	cggcaactac	tcacctgaaa	120
aagaaaacat	tgtctctgaa	ataattccta	attatacaat	tttgcaaata	agcactataa	180
atattaaaat	gttaagactt	cagtgtataa	tgtcaataac	atcctgcctt	tttaaaaatt	240
gcttaaaaca	tttgttaaag	atcatgcaaa	ataaacactg	tattaaaatg	ctagattaca	300
ctcaaacatc	aaggcaatga	aacacaaaag	agcaactatt	tagcacaatg	actggcccag	360
taaataactt	aatcagcata	ttaataaaaa	cccactgagt	gataaacatc	gaaaatgtaa	420
cactgaatct	agataatagc	gcatntggcg	atctaccatc	taccgnccta	actggacttg	480
ggggnaacc	nccggaatca	ttctacataa	atgagctntg	tnaaacgata	ccatattcat	540
tgn						543

<210> 10278

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10278

agtgggggaa	gggtgagagc	tcagcactca	ctgctttatt	atcacagtag	gtgacaaagg	60
ccgcagggag	agggggaaag	gtccagagct	gtggagaaag	aaggggctcc	ctgtctccag	120
ggtttgttta	aggttttctc	catggcctag	ggcccagcca	cttccctcac	tggcctcaaa	180
gccctggagt	tgagccctct	aggcagtcaa	gggcaggcag	gagatggggc	agagaggggg	240
aggatgtgtt	ctttaggtac	agaatccctg	accacggggg	ccagtgcctg	tgggccaacc	300
accaggaagc	tgtgcatgcc	cacagcccga	ggcccctggg	aatcgcagag	gtaattatcc	360
ccaacatggg	ctgccactac	tggttccata	tgaacaagcc	ccaaggcctt	ctggaaaatg	420
ccggggtncc	gcttggggcca	accacaacct	nngangtcaa	cnccaaatca	antggtcacc	480
ccagnccaag	gccttcaaga	tgcctttaac	cgtcggcaa			519

<210> 10279

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10279

ggagatggag	tttcaactctt	gttgcccagg	ctggagtgca	atggcatgat	ctcgctcact	60
gcaacctccg	cctcccaggt	tcaagtgatt	ctcctgcctc	agcctcccga	gtagctggga	120
ttacaggcgt	gcaccaccac	acccagctaa	tttttgtatt	tttagtagag	acagcgtttc	180
accgtgttgg	ccagcctggg	ctcgaactcg	agacctcagg	tgatccccct	gcctcggcct	240
cccaaagtgc	tgggattaca	ggcgtgagcc	accacgcccg	gogtcctttg	taaggtttct	300
atccactatg	aattcttcga	tgttttgcaa	ggtttgaatt	ttgagtaaag	accttgccac	360
attggttaca	tttgtaagg	ttgctccagt	atggattgcc	atatgggtaa	gttaggggtg	420
aacgaacact	gaaggctttc	cacactcatt	acacctataa	gggttttttc	cagnnggaat	480
tcttctatga	tttgcaagat	gggangtttt	gaagtgaaga	ccttgccaaa	ttcgttacat	540
ttggaang						548

<210> 10280

<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 10280

ggcttttta	aaatttactt	attacttggt	cttagcaaat	taagacaatt	acaataaaac	60
atcagctaac	tgggttcttg	tgagaaaact	gaggtcagct	tggaaaggag	ttccccgagt	120
ggagttccca	gcggcccgcg	gctgacggcc	agatctgtcc	tgaggggtcg	tgggagccca	180
gcgcctgcct	tgagggaat	gaacactgaa	aacaggattt	gggagcagta	ttggattgac	240
agcagagaag	ggactgtttg	taagggcagt	ttctcactga	agctgctacc	attttccttt	300
gtaaagaagt	catccacctc	ctcccagcgg	tgcccatitt	caagacgctg	cccgagcctc	360
ttaaaccagc	ttcttgaaag	ggtttttcca	caacgggttc	tggaaatgtc	tgcttcagct	420
ctggaggatg	ctctaaatta	gttcaccatg	atgaagttag	atttgcagtg	agctataact	480
ccgtcacagg	gtcatgctcg	ccttcogttt	gatggtacct	gonagctgca	ttctcaggat	540
gggga						545

<210> 10281  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 10281

gagatggagt	ctcgcctctgt	cgcccaggct	tcctgggttc	acgccattct	cctgcctcag	60
cctcctgagt	agatgggact	acagacgccc	gccaccatac	ccagctaatt	ttttcatact	120
tttagtagag	acaaggtttc	actgngttag	ccaggatggg	tttgatctcc	tgacctcgtg	180
atccacctgc	cttggcctcc	caaagtgtcg	ggattacagg	cgtgagccac	catgcccggg	240
ctcaagggtt	gaattttcaa	cataacttaa	gaaaccctca	tcctttgggg	ggatgaccgt	300
gagtgcagtt	taaaaaaaag	aaaagaaacc	ctcctatgaa	ttaaaccagg	cttgggttaga	360
gggcaaagtt	ctccttctaa	ttanaatgna	agggacctga	naactctatt	catgnctaaa	420
ttgcaagggc	cataaagggg	ccaactcatt	atanggggnc	aataaagaat	ctgggtngata	480
gatgaattaa	aaacgacctg	ggnaaanaan	ccggttttaa	tttncctc		529

<210> 10282  
<211> 512  
<212> DNA  
<213> Homo sapiens

<400> 10282

aaccaactta	gttcagcatc	cttatctcat	tatgccttag	ctacttgaag	gtgatctatg	60
catcctcttt	cacacttaaa	taatcaagag	gtgaacctgg	caaatttata	cttataacttc	120
aagatttagg	ttgaagttat	cattctctat	gaatactccc	atgtgcatgg	ttcattttatt	180
acagtgtgtg	aattactctt	tttttaaagt	tgttttaatt	tccttttttt	tattataactt	240
taagtttttag	ggtacatgta	cacaacgtgc	aggtttgtta	catatgtata	catgtgccat	300
gttgggtgtg	tgcacccatt	aactcgtcat	ttaacattag	gtatatctct	taatgctatc	360
cctccccctt	ccccccaccc	cacaacaggc	cccagtgtgt	gatattcccc	ttcctgngtc	420
catgtgtttc	catcgtntcaa	ttcccaccta	tgagtggagaa	catgcnngng	ttgggtttct	480
ggccctgggt	cagnttgccc	anaatgangg	tt			512

<210> 10283  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 10283  
atttaaatac atttatttga accggccttg gggaggcttg atgttgatgg gttgggtgatt 60  
aaagcctccc aaagccaatc cttggcatgg cctttgggac tcaaaacaca ggatctgact 120  
ggtgggcaca ataccatctt gaacgccac aaaaagggtt ggttttgttg ccaaagggca 180  
ggtggctcca ggcagggtg atgggtggcag ggtgggggtga ggacaggaca agagatctgg 240  
gtgtggaagg atggccgggt ttctgcagca gcaggaggaa aggggtgggag cacacaggca 300  
cagaacactg tgagcaggac tgccaggcca gtgtcacaag cgctaccatc tgggtgtaga 360  
cagacctgag ctgacaaagc tgggggagca aggccaaacgg ctttaaacac aagctcaggg 420  
gcttgggggtt tatcccgagg gcacaggcca nccatgtagg gtggagttag catgagttaa 480  
gcctgggctg ggtgtgtana ctggacaaaa gtgggttangg cangcagtga ccantctgtg 540  
tgcaanaaac tttntggc 558

<210> 10284  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10284  
gcaaagattg ttggaaataa tccttctctt gtacctagaa acataggtgc aaatttctga 60  
tatctttgtt ttatctgcat tcctgccttt catgaaagtc cctcttgatt gtgctgaggc 120  
tgtggctcag cgaagacact gaataaatac gatagccact gttgcttgtt gcttgtccaa 180  
gtcttctctg cttctgctgc aagaggggga tatggagaag gtgggccagg gtgtgtggac 240  
ccgggcagaa tctggggaag aagcctgcca ttctctttt tttccacac caccgaaccc 300  
actgcccttc ccacccccac agccctttta tgaaatcaga caacgtggtg gttggaaaac 360  
agcagggcct ttctctggtg ttttcaacca gaagtgtat tccacaagtt ttaactggtt 420  
actngaaagt ccaagcggcc agaattngga aaatgtcact ggaacactgn agccngggac 480  
cttaaagacc gtaggccttt taaaatttgg taaaaatttt gggaggggctn ttacaagngg 540  
naattttttt tttttt 556

<210> 10285  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 10285  
aaataacttg attttatttc aggcacaaagc ccctccactc tgaactaaat gccatgacag 60  
tcccacagca taggctggta gtaaaagagc ccacagacag ggtaggatag ccagaggagg 120  
gaggagtggg cgacaggagg gggaaggatc acacacacaa acctagagt agagcaatgc 180  
agaatgcctg tggcactcgg ctctaccag ctctggctct cagtggagat gaagaatggc 240  
agcaggaggga cagaatgcct cattgtctga aggagagcgt gttgtttctc atctccatcc 300  
ccagagccct ctctttcagg caggcagaaa caaagccctt gcacccact gcaactgcga 360  
acacagcaga gacgctggtg gcggaagccc tggaggcagg gagctgtctac caaaggagaa 420  
gaaaaggatt ccaaaaagaa aggagcccac tctaaccctg cggaaaagat ggnccatgtg 480

ctgctttata acccgaagaa gacagtagca gccccggaca ggctttccaa aataaangnc 540  
cctgggcttg t 551

<210> 10286  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 10286  
gagacagggt cttgctctgt tgcccaggct ggagtcagct cacaagctct tggctcacgg 60  
caacatcccc ctcaggctca ggcgatcctc ccacctcagc ctcccaagta gctgggacta 120  
cagatgggtg ccaccaccat gcccgccctgg ctagtttttt tttttttttt tttganacgg 180  
agtctcgctc tgtccccag gctggagtg agnggtgtga tctcggctca ctgtaagctc 240  
cacctcccaa gttcacgcca ttcttctgcc tcagcctccc gagtagctgg gactacaggc 300  
acctgccacc atgcccagct aatttttttt gnattttttag tagagacggg gtttcaccgt 360  
gttagccggg atggtctcaa tctcctgacc tcgagatccg cccgcctngg cctccaaaag 420  
tgctgggatt acaggcgtga gccaccggcc agncctgnct ggctagtttt tgggaattttt 480  
ggaaaaatgg ggcntggtat gttgnccaag ctggcttgaa ctctgagctt aagggtccc 539

<210> 10287  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 10287  
gctagttatt aagaacaaag ggcattgtgtc gtaacagggg atctaattac tgtaagccag 60  
aatgattgct gaaatgtcaa aatgtaagat tgaatgaggc tatTTaaaca ttttagtata 120  
ttttgtctta ctgaaattga taaaaaaaaa aaactggcaa tgtaactaaa tgcgtaacta 180  
attacttgaa ataaaaagat tacttgaaat tcaaatTAag aaaaatccat ttaaataTat 240  
ttgtgggtga taatctccat ctgcattccat ttatataaaa cttaaaatgc caaaaaataa 300  
agaccaatat taatctcttt atttctgaat gagatgaaat cactgacatg tttgatgctt 360  
ccactattag aatataccct ttaaacacga aaagaacaac tgcaggagct ttaacatcca 420  
ttatcatggg tgaacatctt tgttacttct aaagncatca cacctatttg ggaggtnaaa 480  
aacctgaaat taaaagcttg naccaaatgc tgggtttaaa aaggcaattt aattctgcat 540  
tctggaan 548

<210> 10288  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10288  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

000270"69462960

nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 420  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 480  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 540  
nnnnnnnnnnnn nnnnn 554

<210> 10289  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 10289  
aggtgcaaac ctgggtttatt acgtttctttg gttaaataatt gttttctacat ccttttcagag 60  
cattaggaga acaaagataa tattttgatag aaagactgaa aacacatcct ttgctttttca 120  
gagaaaagac tgaattttaca ctgggtactgt tagaaaattct tataattagg cttagacgtat 180  
aagaagtttag ggctttttgct gttgtcttgta tgttttgaaa aatacattcc cctgggctag 240  
ccaacatcac tgtcctgaga cccagacctt caggagtctc ttgataaagg ctgctccgca 300  
catggtcaga aaagtcgggt cagctcatca tgtcgagact gcatgggtca gtgttgccat 360  
cactgcgcaa cgctctctgcc acatctcttc tgaatcagac agattttggg gtgaacctgg 420  
ctctgggtctt gacggacagg ttctgggtcca ctcttctcatt aaggttcttg aagcactggg 480  
ccaaggacct cctgcttggg gaagggtctg ctggttatna acttggtnnt aagttactgg 540  
aaaaccttnn natggncccg gataa 565

<210> 10290  
<211> 512  
<212> DNA  
<213> Homo sapiens

<400> 10290  
aaacacaaaa tagtctttat ttgtcaacga aggctacacg ggatcacttc tggtttttggt 60  
tttatgcttt tttttttcta gaaggatatc acatctgoat ttattttacag ccttgttgggt 120  
atttacacag tcaagataca gtgttagaaa cacaaaagtg ttgagaaaaa aacttctcaa 180  
aattagttcc agacttcagg aaaatgattt ccacatggta aggccagagt ctccagtgtt 240  
ggatcatccag aagcagcttg gtacagactc cttttgcccga agctgcgggt tcagagggtgc 300  
tcagaacaac aggtggattt agaaaagtgg gattctgggtg ttgggtgaat ccagggtctgc 360  
tgggggcaccg ccagacacct gaggctcagc tcctgccagg acggcccagc gtgctccaaa 420  
ctaagccttc cttggctgggt cgnccctcaga ataaatcaca tttcttgggg ancnagaagg 480  
tcnccctaagn nccttgcctt tggcattcca na 512

<210> 10291  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 10291  
caggctataa ataagaattg accttttcgt gggtcacaca tttgttgctg aagtcttcct 60  
gtggggctgg gaaaagagtc aaaacctatga atcttgaata ttcttctctg gaaaaactca 120  
naacgccagg tggcgtctct gcagacagct gtgtcccgat gccccatttc tgggccctgc 180  
cggaaggctg acactatgga gcttgtgtctc cgtgatgccc agggcttctg tgaatggcta 240

aactgcattt	tgtaattctc	tttttaaaga	gcttgcctct	ttctggagct	tccacctct	300
tccttcatcc	ctataaaaac	agatctat	ttggcaggta	catacactga	gccagattct	360
cacactgcaa	ggaggcaggg	gagtgcaggg	gaagcaacct	ggggaagggg	aaagagtgca	420
gggaggagac	gactngccct	tgactgnacc	ncaagttgaa	ctgggngcta	cttgggaagtc	480
aagccttncg	agtgaaccct	tgaaaccatt	catnggggct	taaggttccc	atgggcnntc	540
aactatccng	ggcttaaggg	tgaccttttg	ggggtttttg	gaaaa		585

<210> 10292

<211> 459

<212> DNA

<213> Homo sapiens

<400> 10292

gccatggcaa	cacaggttta	tttacaccat	accctggatg	caaggtgggg	cagggttgcg	60
gggagggaga	gggagtacag	tgatgtcaag	agcacagggc	tcctggcctt	canaccagtc	120
ctcagctaca	ttgctgcagg	caaggccggc	accagccccc	aggctgagtc	atgggtaaaag	180
gccaaagagct	gaaacaagag	tttctcatgc	accaggcaca	tttataaagc	aacccatcca	240
cctggagccc	aaaactgggt	tgacagattc	cagagaggca	aggctcctga	tgaccccata	300
actcccaactg	cccctttaac	aagggaactct	taacacctta	tgataaccca	aatcctaaac	360
actgttgccct	ctgccgcctc	ttccagacac	agaaggcatg	atcctgctga	acactggcct	420
cgagggaact	gnggntgaaa	ncccngngcc	cantgntca			459

<210> 10293

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10293

ctttttttct	ttttttttta	gacggagcct	tgcccttggtg	cccaggctgg	agtgcaagtgg	60
tgcatctca	gctcactgca	acctccacct	cctgtattca	agtgattctt	cagcctcagc	120
ctcccaagta	gctgggatta	caggcatgcg	ccactacacc	cggctaattt	ttgtattttt	180
agtagagatg	ggatttctcc	atgtttggcca	ggctgggtctc	caactcctga	cctcaagtga	240
tccacctgcc	tcagcctccc	aaagtgctgg	gattacagggt	gtgagccacc	gcgcctggca	300
atacttacat	tttcttttct	gaaaagttag	tgtgagaaga	caaagcaatc	ctacactaaa	360
tttattacgg	aaaatgtttc	ttcctggtag	tttnaagtga	tcacataagt	cagcttatgt	420
taatngctct	actatagagt	atgagatant	ccagagatcc	cactttaagg	aagacacagc	480
cttgggggct	ggccaggntt	actggagctn	ggacctgaaa	ttcctggctn	naacctttac	540
tttnagnntt	tgaataccan					560

<210> 10294

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10294

agacacagtc	tcgctctgtc	accagggctg	gagtgaata	gcgtgatctg	ggctcactgc	60
aacttccacc	tcatgggttc	aagcaattct	cctgcctcag	cctcccaagt	aggtgagatt	120
acaggcactt	gtcaccatcc	ccagctaatt	tttgtatttt	tagtagagaa	ggggtttcac	180

catgctggcc	aggctggtct	tgaactcctg	acctcaagtg	atccaccccc	ctcagcctcc	240
caaagtgtctg	ggattacagg	cttgagccac	caagcccggc	tcccatagct	gctttttgta	300
gttttctggg	gatatcaggg	gcagactggg	tcataaaatg	tcctcccaaa	aggggtttgt	360
ctctcctttg	aggcaggatc	agtgatatta	tacttccgat	tgcttcaact	aatgccctt	420
gaaacaaacc	tggattctta	tctttatcct	gagaatcttt	cctnacctgg	tcatagatac	480
angcnttttc	aaacaattct	tnatcctttc	aacgaacaag	ggccctttga	acctttcttc	540
ccaaggccta	ntgggccttt	ggaaaatccc	c			571

<210> 10295

<211> 500

<212> DNA

<213> Homo sapiens

<400> 10295

acatatcata	taaatatatt	tgttcaaact	acaaagggat	ggatatcagg	gggaagcttt	60
tattgctgtg	gggggacctg	gagagggagg	ggggccttgg	aaatggggat	acctggggacc	120
acttgttccc	ccatttcctc	acagaaggca	caaatacatt	atttctttcc	atgtgaggag	180
atgcgaggag	aggatacaga	atacaggaat	cctcaaaaat	acaaaaaacc	cctccaaact	240
gaatacctaa	ggttatggaa	aaggctaggg	tggggcacag	aagtcaatgg	gggaacagaa	300
agaggaacca	atgaaactga	gaaccaaaag	ggacctgaga	ggccatgatg	tccatgctgc	360
tgctctgtg	cagaccccag	agaaaaactca	ggtaaaccaa	cggaaaactcc	aaataagaaa	420
gggtaggggn	gccccaaaga	ttggcttttg	ggcatcagac	caaggantgt	gaatgtaatt	480
gnnngtgtnc	anggctgggt					500

<210> 10296

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10296

aatacaaaatc	tactggtgct	taaaactcag	agcttaggaa	acacagccta	ggtaaagacc	60
aatcttcttg	ctgcatattt	cacagtattg	aattctttct	tggtaggttc	tccatacaag	120
ttatgaagca	ggataaaagt	cagtcttata	ttaagtcatt	gtaaatacgg	ccttaatttc	180
aatcaccaaa	gaaatgtatt	tttgttgtat	acctatggtg	cagcatgttt	tattaaaaact	240
aattatatca	atagctacct	gtagagtatc	aacttaaaaa	ttataatgcc	atttctatga	300
agtcattact	tttataggac	tagcctgtgt	catatgtgtg	atcaatattg	gtttaatgca	360
gaaacaaagg	cagctgggtg	tccaagcaag	ccacttttct	gggtcagggt	ttcagtggta	420
ccatagatgg	ctgccagtct	caatgtcact	ttggcccatt	tatctttata	aatcatacca	480
tatagcttcg	atatttccat	ccnttnaact	ggagggccgg	ccccggggnt	tacgcctgga	540
atcccagccc	ttttggaggc	cgaggcgc				567

<210> 10297

<211> 515

<212> DNA

<213> Homo sapiens

<400> 10297

cgggtgcaag	tcgtttattc	gggagctgat	tcctggaatc	acgganaggt	ggtgaggaag	60
------------	------------	------------	------------	------------	------------	----

acagccaggg	aaggaggana	gctgctgagg	gccacgcgaa	tgagctntgg	ccagggagcc	120
accaagagtc	agtgtaggat	gcacctcgga	atcatgccac	taagggcatg	gaggctggag	180
tggttaaggaa	gctgggggtat	ttccactcaa	tctgggctct	tattgttana	naggngcctn	240
tggaaggcat	cgaacccctg	aaactttcag	tctaagctgt	ccatgtgcag	atgatgtcag	300
agaaagccct	cagggagaga	gtcacaggtc	cttgggtgaag	gaagtcatct	gcctgtacag	360
gaactgtcct	ccagtagacc	aacggaaaag	tgtgctggac	ataaacaaca	ccacactgac	420
caaaggccca	naagancntn	ggaacttgca	accaggcgct	taaaactngc	acaaggtgaa	480
agnctcagga	nttaaagtcc	aaaatttgat	gggna			515

<210> 10298

<211> 581

<212> DNA

<213> Homo sapiens

<400> 10298

gagactgagt	ctcgctctgt	cgcccagact	ggagtgcagt	ggcacgacct	ctgctcactg	60
caaaactccaa	ttcccaggtt	cacaccattc	tcctgcctca	gcctcccaag	tagctgggac	120
tacaggtgcc	tgccaccaca	cccagcta	tttttgtatt	tttagtagag	atggagtctc	180
accatgttag	ccaggatggt	cttgatctcc	tgacctcatg	atccgcccac	cttggcctcc	240
caaagtgtctg	ggattacagg	catgagccac	cgcacccgac	gaggtctgat	ggttttataa	300
ggggctctcc	ctgcttcgct	taacacttct	ccttcctgct	gccttgtgaa	gaagatgcct	360
tgcttctctt	tcaccttctg	ccatgattgn	aagtttcctg	aggcctccca	gccatgctgt	420
gaaactngaa	gtcaattaaa	cctctttcct	ttataaggta	cctagtcttc	gggcagtctt	480
tacagcagta	tgaacctgga	ttaatatcct	agtaatcaat	cctttnccaa	gcattgggaag	540
notacctgca	caatttcttt	nnagnncntt	taactcttgg	c		581

<210> 10299

<211> 578

<212> DNA

<213> Homo sapiens

<400> 10299

ctggaattat	ttatccaggc	agaagtataa	gaatggaatt	aaattatctt	ttgagtttct	60
cttaaatccaa	aggcttaaat	cccttgccag	taaaaaggac	aaaacaaaaa	gaatataaat	120
ttttttctat	aggactcatg	actccaggaa	aatacacaaa	tcccttttta	gaaaaatctg	180
atgttttcac	ttggtatatt	tccatctctt	ctttatcccc	tccacacctg	gagctcccac	240
tgaatttctt	aagacagact	ctcagccggt	gtaattagat	gggagaatta	catggagtta	300
catgggggtga	gatgctggcc	ctctgggato	tctgggttcg	gagaagggtc	caggggtggag	360
aggcagaaca	agtgggattg	tgcatgataa	catctcaagt	gattttctca	gtcagaagat	420
aaagcatatt	ggtaagaagg	gcactctacag	cgaagcttgc	attgagacag	ttacaattgc	480
acaactcattt	taaaaaacaaa	ctggccaagn	aattncngct	ggcgtttaac	cctgggaaga	540
ngngaacagc	tgggagtggg	ttccccccaa	nccatggg			578

<210> 10300

<211> 463

<212> DNA

<213> Homo sapiens



<400> 10300

ccagtcgggt	tggagtttat	ttctgccaga	gcctggaggc	tgggagggt	aaggacactc	60
ctttagtccc	agaggggaagc	tccgaaccct	cagagcaacc	agaagggagg	gcagagcatg	120
ggcagcagca	ggagttagag	gggtccctt	gtcctgcccc	tttgcaagg	ttcaaggctg	180
gtggaggcct	ggggcttctg	tcgctcagga	gttcagggt	ggacgcagaa	atgggggaag	240
gagagtggct	acgtagagag	tgagagcgag	attcctaata	agatgcacag	agagaccctc	300
agagaggcca	agaaagatgg	tgaaaaggta	aggaaagaaa	aggaaaggaa	aaaagaaaaa	360
aaagaaaaga	gaaaccnnag	ggaaatgggt	tgacttggct	taagaatggn	ngaaggancc	420
gnccaattcc	tttcctaagg	ctatngaato	aataccgggg	gaa		463

<210> 10301

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10301

atttatttcc	actctaattc	ttgtttcccc	tattctgcta	gcttgggttt	agttcttctt	60
ttttaggttc	ctttaaagt	tatagttagg	tgactgattt	gagatctttc	ttttattttt	120
tatttttatt	tatttatttt	tttttgagat	ggagtctcac	tcgtctgtgc	aggccggtat	180
gcagtgggtc	aatctcggct	cactgcagcc	tcaacttctc	ggttccagtg	atcctcccac	240
ctcagcctcc	caagcagctg	gaaccacagg	agggttaaac	cacaaccagc	tgatttttgt	300
attctaggta	gaggtggggc	ctcactacgt	tcccaggct	ggtcttgaac	tcctgaactc	360
aagtgatcca	cctgccttgg	cctcccaaag	tgctgggatt	acccgcctga	gccactgcgg	420
ccagccagtt	gggcaagtgt	tttctttttt	ttctttttnt	tttntttttt	ttttgggaan	480
ggagnctcac	tttgttgncc	aagcntgaat	gcattggc			517

<210> 10302

<211> 596

<212> DNA

<213> Homo sapiens

<400> 10302

ctttctttct	atcttctctc	tctctctctc	tctctctctc	tctctctctc	ttctctctct	60
cctccctctc	tctctctctg	agagatgggg	tctcactatc	ttgccaagc	tggtcttgaa	120
ctcctgggct	caaatgatcc	tcctaccttg	gcttcccaaa	gtgctgggat	taaaggatat	180
agccactgca	cccgccaatt	tttaataagc	attattttta	gtaagcaaac	actctctaca	240
gcataaaaa	tgcttatttg	ttctaggcat	tgttcaagaa	gtgggatcct	gtttgtggct	300
cccagagtct	ctgaggtaga	aaccactaga	gatgaagaaa	tcgaggcaga	cagatgaagt	360
aacttggctg	agtgcaccag	caggcaagag	gcagacctgg	ggttcaaacc	cagccagcag	420
gactccagag	aatggggctc	acaagccgct	ttgctatacc	gcttttggac	tacctgggca	480
gctgaaatgc	aaatcttaag	gccacctgg	ttaagcacac	ttttcaaggc	ottgaactgg	540
aaangaccca	ncagggccct	taagagcagc	cgattaacca	ccnttggtgg	tgggac	596

<210> 10303

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10303

gaaatgagac	agttagtttt	tattttattcc	acttttgttc	taggtttcac	tgaagaaatg	60
ttggtttcac	agtgtctgcc	agattccct	gggtgttat	ctgcatatta	ctttctgtct	120
gatgggtcct	ctgggttagct	gatacagaca	tggagttaa	agagcaagag	atgactaagc	180
gtgactcctg	ggaaaaataa	aagtgggtag	aagcaggctc	aggtatggaa	aaccttctgg	240
ccactgtgga	ggtctgacag	cttagaccac	attgcaggctc	acaggcagta	tggccaact	300
ccacagggag	ttctagggtg	tggagcctca	tgttgggctg	aatcagccat	gccctgtgcc	360
tttctgtgcc	cacgtatttg	ctggggactg	cagagaaaga	ccatggcctt	aacttgaaag	420
ccaaggccga	ccttaaatga	actaccagat	gcaggttggc	aatggtagct	acctgcactc	480
attgntgggg	aananaaagt	cttctntaag	ggaaatctga	aagcttttgg	cctgggcttg	540
catgnaactn	tng					553

<210> 10304

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10304

ctggtcctaa	cacaaatgtg	aattttattgg	ttgatttgat	atttaaaata	gtacttttac	60
aaaatcatct	cagaaaatat	actacattta	ttaaaattcc	tacaaaccat	tgcagaaaat	120
attaaaccct	ctaaccaacc	taacactcgc	tttcagaggc	acttgtgatg	attttcacag	180
cttccatagt	tgcaaagaac	aaagaaatca	tcttccaaca	ggggtggaat	tagataagaa	240
taatccaaaa	aatattttatt	tctttacaga	ctcacagatt	gcttgatgtt	taggggctct	300
tacctaggat	acctaattat	tcaaggtttt	cctaatttag	tagacttttt	cattgcctac	360
aatctacaat	attcagcaaa	gtattaagga	aaatgaaccc	aagaacctta	acctctcaaa	420
taggtttatg	gatatactaa	actggcaagt	acaatcttta	tottaagact	tgagaacggg	480
atgcaggaaa	acaaactttg	gnggaatctg	gaataaggnc	ttaagctggg	caaactaggc	540
gngnaancct	ggatgggttaa					560

<210> 10305

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10305

ctttctttct	ttttttcttt	tcttttcttt	tttttttttt	tttgagagng	tctcactctg	60
ttgccaggct	ggagttcagn	ggcacaatct	cggctcactg	caatctccgc	ctttcgggtt	120
caagcgattc	tctgcctca	gtctcccaag	tagctgggac	tacagccatg	ngccaccaca	180
cccaattaat	ttttgggttt	ttattanaga	cggggcttca	ccatgttggc	caggatggtc	240
ttgaactcct	gacctgtga	tccgcccacc	ttggcctccc	aaagngctgg	gattacaggc	300
cttagccacc	gngcccagcc	aacacatttc	ttatacaaca	tggttttgag	ttattttacc	360
tacaaccaac	tccagctggt	ttaatgngta	gcttacagaa	ttgaacccac	ttttttcaga	420
cttggtctacc	ttttctacaa	gggaaaaaag	gcattttaca	agacacagaa	gcccctaagt	480
ttggaaatct	ctgncaaaaa	aggggganaa	naaagacttt	ttcaaggnc	cgaaagggga	540
actatgggga	aaggattaac	ccccccaa				568

<210> 10306

<211> 569

09629469.02300

<212> DNA

<213> Homo sapiens

<400> 10306

gttttgctaa	actaagattt	ccagaatatt	ottgattagt	caattttctca	ggaactaatg	60
tcttaaacct	acaaaaggaa	gcaggacttg	agggaatatag	agcaagtttc	agaggcagaa	120
ggccctcact	gagcttccag	taatgttccg	tggaagctgt	gtgacttttag	gtgagacact	180
cgggctgccc	cagagatctg	gaacaagtcc	ctcctcacag	cgacagcatg	atgcagggca	240
ggcaccagca	aagaagggtg	tggaactttt	taaaaactct	gtttgggggtt	acctgactgc	300
accaggttat	atctaaatgg	ccattcccca	aaagttttta	agtgggtgaaa	ctggtaagtt	360
ctgtaatttg	ctttcaaadc	atcccaaaag	tggtcatttt	ctctacaatt	ctatacatac	420
ttctgtacca	gacatgggca	gtacaggatt	ttttaatcca	cctanggaag	tcccctgttg	480
tcaggaaatg	gcataatttc	cccttaaaag	ggccctcttg	ctctttgntg	ggaacttttn	540
ccctcttggn	ccttctcttc	ttatnanc				569

<210> 10307

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10307

ctcattaaca	caaataattt	ttgatactat	ttatacagta	aattaggttg	aatgtgaagt	60
tttgatagc	ctgaattcac	cattttcttg	tgcacaaatg	ggcatttttc	tcattttaca	120
atgggcattt	ctctttggca	tccattaggt	atttgcccag	atattggcct	ctgtcaaata	180
ttttttaaaa	atcaacctag	tttctattaa	acaaaactaa	aagtgattct	atggagagt	240
attgtatgat	taccaaacac	atctgatgtt	aaatgtcatt	aaagtgtctg	ttgatgatct	300
ctgcggtttg	tgctaattaa	gacagagagg	gctgggattt	tataaatccc	aagagtctta	360
totgaacagt	ctgcatataa	aagttgnttt	ttagcctggg	gaagggtatc	catgaagccg	420
gggacttntg	gcattctggc	cttgctgggc	aagtaccagn	catntttcca	acggnatctt	480
catgctccat	aggtttanga	gctggcaagg	atctggnaac	aggcttggca	agtttgctgc	540
aaggcnctgg	tat					553

<210> 10308

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10308

gaaccaatca	atcactggag	acacacagac	tccacctgta	tcaaacgagg	ataccagcca	60
cccanacagc	cccagtccca	gctccatcca	tcctgcaatc	cctcctccac	agcacagcac	120
agcccanacg	ctgcctntgg	gaaggaagcc	tgaggccana	gttgctgagc	ctntgggaaa	180
atctggaaaat	ttggtttccc	caagatagac	tccacctcct	ntggaaagat	gctgngctcc	240
tgacagggct	ttgtctccct	gggaaggaat	ccatgtcttg	ggaaggctct	gcattcccagg	300
aaaggctcca	cacctgcagg	agggactcct	tggtcctgag	ggactctgtg	cctgcatagg	360
ctccagtcct	taanaaggac	tccatgatgc	angggggact	ccaggccctt	aggaagttn	420
catgtcctgg	gaaaggnttc	caggtcccca	ggcttgnggc	caanatcccc	agggcgaaaa	480
actgggtcca	aacaggttcc	anagnccatg	ttggncaact	tgaaaaccct	gggnaggn	538

09629459.072300

<210> 10309  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 10309  
aaggcattag acgtttgatt cttttatttc catatgcaat gtaatgttta ggcacgctgc 60  
ttgggatgct acttctaaaa aaattgttgg ccatttttca gaatatcctt ttggttttta 120  
atactgggtca ggaaaaacaa atgatgtaaa aatacgtgaa taattttcta ttacagaaat 180  
gaaaaactga tttgcatcta aaagtgcgaag aggtgaagta atttaaccct ttcaccagac 240  
gatatggcaa tatacaatat attgcttgag ctgtttgaga aggcctgtgat gtatttttgt 300  
attgacatag aaaattataa attacattga attagtatcc ataataccta tatatataca 360  
caaaccagtt ctaaaaaaaaa tacactgggt taaatttatg agtgaaaacc tcacaaggtc 420  
agtaaacaat tagcatgctt cgggccagat tttggattct attttaaaat ctagcctgta 480  
aaatgaacca ctctaattca ntagcagccg agccttttca ctgacttgcc nataggatta 540  
ttaggg 547

<210> 10310  
<211> 568  
<212> DNA  
<213> Homo sapiens

<400> 10310  
ctttcaacaa ggtcttgttc tgtcaccag ccaggagtgc agtggcacga tcaactgctca 60  
ctgcagcttt gacctcccag gctcaggtga tcctcccacc tcagcctccc gagtagctgg 120  
gactacaggc atgcaccacc acgtccagct aattttttgt actttttgta gagacgggg 180  
ttcaccatgt tgcacaggct ggtctcagac tcctgggctc aagctatccg cctgcttcgg 240  
cctcccaaag tgctgggatt acaactggga gccaccgtgc ccggcccag atctctcctt 300  
taacaagaag ttttttgctt tgaaaatgtt tgcaaaaagc gtttcttgat tctgtcacc 360  
tgctcccaa gcaacacgtg actacttgca actcantaaa gaagaagtgg ttgaagtgc 420  
tccttagccc ttaaaaaatc attaaataat cctctaggng gatttttaac actagcaaga 480  
aaagctaagg gaaatggcaa gaaaggango gggactttcc angttgggcc acgaaatacg 540  
ggntggcttt cctttanacn aananggg 568

<210> 10311  
<211> 531  
<212> DNA  
<213> Homo sapiens

<400> 10311  
aaagtctaaa attatttttt taatgagaag ttattttttt cacaagcctc ctgaaaaata 60  
gcgttataat gccaccattc aattacacgg taagacagta ataccccacc ttctatgga 120  
gcccttggag gtgccaggca tgtgctaatt tgaggtttat ctcatgaat cctcacagca 180  
atcctaagaa ggagatgcta tcattacccc cagttttcag atgaggaaac cttcagctca 240  
gagaggtgaa gtgacttgcc cagggtcaca cagccagtaa gtgatgaaac tgtgtggctg 300  
tgctctotga atccagagta atttaaaaag tccaagtagc agcacatagg atccacaaca 360  
ctggatgaca ggggtcgcgc tgttcagagg actgggggcc actcccatgg ctgcagatcg 420  
aactctacaa tcaccttcaa aagngcctgg gcctttgcta tgocnttgcc caccttctgn 480

09629469.073800

tgntttctggc atngngctgnt tactggcttc accagncctt ttctacttcc t 531

<210> 10312

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10312

aagataagtc	ttttgaaaaa	tagtagaaat	agctgaaagg	caagttcagt	gtttgacaat	60
cttcaggggc	ttgagggatt	ataagtacct	catagtctaa	atttgagcat	attctttttg	120
gccattttga	tagggtttgg	ctgtgtcccc	acccaaatct	catcttgact	tgtggctccc	180
acagttccct	cgtgttgtgg	gagggacccg	gtgggaggtg	gttgaattgt	aggggggtggg	240
tctttcccat	gctgttctca	tggtgatgaa	tgagtctcag	gagatctgat	gattttgtag	300
gggagagttt	ccctgcatca	gctctcttcc	cttgtctgct	accatatgag	acgtgccttt	360
aaccttccac	catgattgtg	aggcctcccc	agcctcatgg	aactgtgagt	ccattaaaca	420
tctttctttt	gtaaattgcc	cantcttggg	taccgtcttt	atcagcaca	gaaaaggac	480
taatatcatt	tattctgaac	atacttactg	gacattnaat	aggngggaaa	actctggctg	540
ggggnnnaat	ttgaatgaan	ctaatccttg	c			571

<210> 10313

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10313

gcccttttca	ttttctttta	atgtccagag	ctttcagtgt	tgtcatactt	taattcaaaa	60
gtcaacataa	aagttaata	catatagtaa	gctgaaaagt	gttagtgaaa	tgagctgagc	120
tttgcttttc	caaacatggt	tccaaaagtt	tattttaaaa	cacacacata	gtgtcagata	180
caaacgcctt	ttaaccactg	tggtggggaa	gagtaaactg	attgcttcca	atgatcatct	240
cttccctctg	cgtccactgt	tctcagagtc	tcaggaggta	tgagaggatg	tgtctcttcc	300
tttacttccc	tgtttgttgt	aatgagtcct	tcgatgagag	taattacgtg	accgaatttt	360
ccataactat	ttgntgatta	ttaaagtttt	gcagtggctg	gntttcctaa	tggggnctta	420
caaccaagca	tttcttctaa	attgggtgng	gcanggtcat	tcacattaaa	tataccggta	480
ttaattannc	tcttcttctc	actactccga	gccttaaaca	ggctgnntaa	ggcgttttct	540
gnncatcaga	agatatncc	cttacct				567

<210> 10314

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10314

gagaaggagt	ctcactctgt	cgcccaggct	ggagtgcagt	ggtgcgatct	cggctcactg	60
caacctctgc	ctcccggtt	caagccattc	tcctgcctca	gcctctggag	tagctgggat	120
tacagacgtg	ccaccacgcc	tggctaattg	ttgtattatt	agtagagatg	gggtttcacc	180
atgttggcca	ggctggtctc	aaactcctga	cctcaggatga	tcacccacc	tcggcctccc	240
aaagtgcctg	agttacaggc	gtgagccgcc	gtgcctggct	gattatgctt	ttttaaaaca	300
gaaatgaagc	atttatcttt	ttctctctgc	ctaaccctc	cagaattcaa	aaattctttt	360

tttgangggg	tgtggggagt	tgggggacgg	gagtttggtc	tgncgcctgg	gctggagtac	420
aatggcacga	atcttagcac	atnacaacct	tcaacttccg	aagtcaagtg	atctcctggc	480
tancctccca	agnnctggga	atacaggcac	ctgccaccac	ggntaantnt	tttttttttt	540
ttttgcattt	ttcaatnaaa	a				561

<210> 10315  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 10315						
aaacttttat	ctttgtaaac	aacgcacatg	aaccagatgt	atttctcagc	tttacacagg	60
ggaaaagggg	aattaaaaaa	atacgcaatt	gccagcaaaa	tgcaaatgtt	taaaaaggaa	120
acacggagaa	ccatgggaat	ggaacaacag	acagaacttc	aaacaatgag	agaaaaaacg	180
aacaaaacaa	caagagaaaa	cacaacagat	ctgcaatcca	ccaatcgott	tttcagctga	240
atgggggtta	ctttaagacc	agaagttaaa	gtcactgctg	ctggtaggct	gcctaattcc	300
gagtagctgg	ccctgcttca	gggctggggc	accaaagctc	gaggagccag	cctcttgggt	360
gccattctgt	gatgggggca	cctagtgggg	acttttcttt	aagttcaccg	attactttta	420
acagcatagc	tccctntccc	agtccctgct	ggtgggaacg	aacacgttta	tgagaaccac	480
gtcttccagt	tctttaaaga	gaacctgggg	ctgggtattg	acagatatcc	gntggtgggg	540
nttatcggat	tnggttaant	ttataacc				568

<210> 10316  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 10316						
aaaagcttat	tttgacttgt	tgcccgggat	caattgcaaa	agcgcttctg	ttgagaaagg	60
acagttcagc	caaactcagg	ctggttttta	gaaacagAAC	tggaggaaaa	aaccagaaa	120
acataaggca	ctgggcaaat	gtgacgtagg	ctgggatgaa	acccattctc	ccagagccgg	180
tctctccac	agcacaagc	tgctcctcat	gcagccagct	ggctgagggc	ccggagtgtg	240
tccacagagg	gaggagcggg	gctggggagg	ggnagagggg	aggctggctc	ccgaaatgt	300
gacctgagga	ctgatctgag	ctgcagttag	cactttttac	ccaggggctg	agcttctctg	360
gctcctgcga	catggatgga	gctctccctg	ccgtgctgcc	agctcaggag	cctgaagccc	420
aagggcgcgc	ttctgtaccc	agcatncant	ccctgncagg	gccttttgag	acccgatcct	480
ttggtcactc	tctcctggtc	agcccacccc	tggcaaaact	ngngatccct	ttanatnacc	540
ttccctgggt	anccttant	t				561

<210> 10317  
 <211> 567  
 <212> DNA  
 <213> Homo sapiens

<400> 10317						
cttttttccc	agtgaattat	ttttttatit	tgtagagacg	gggtctccct	gtgataccca	60
ggctggctct	gaactcctcg	gctcaagcgc	tcctcccacc	tcggcctccc	aaagttctgg	120
gattacaggt	gtgagctacc	acgtctggcc	tgggataact	cattgtaaaa	ctgggtgaaga	180

cctgggacct	tcccagtaga	caatgggaca	gagtgattga	caggatgagt	tctggagtag	240
atggcagaaa	tgtacagaga	agtctcccag	agaaaactaa	ctggctggaa	acagagcctc	300
tcctttcttc	tttgagagga	tgagagtgtc	actgtcttgg	atgccataga	tccccagacc	360
caaccagtcc	tgccaggaatt	ggccttggaa	ttccagctgc	tgctgctttt	taggaagccc	420
ctgctggctt	caatctgctg	cttcagaccc	aggatgaaac	ttgttggggg	gatggcatan	480
gcgtaacttc	cancattagg	gattctttac	gaaaacctgg	atctcggang	ggatggctcc	540
accnaaanat	ntnaatgtgg	gaaaaaa				567

<210> 10318

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10318

agacagagtc	tctctctgtt	accagggctt	taagggtttt	ggtagacaca	gggtctcact	60
atgttgccca	gtctgggttc	aagctcctgg	ctcctaatga	tcctcctgtc	tcagcctccc	120
aaagtactca	tattacaggc	atgagccacc	atgccctgct	gtaaattgtt	ttgaacagag	180
gggtgaaatag	gcttagggag	gaacatactg	agtctgaaat	agaacatcca	ggtaggaggat	240
cagccatcag	tgagagctgc	acaaaggtca	tgattagagc	attgactcag	cttagagaag	300
ggagtccagag	ttcagacagc	cacaggcaat	tcctagagta	agtgaagaga	acaattttga	360
aaggcacctg	ctgaagaaaa	gcaattattc	attcctaaaa	ggcactggcc	gatccttnac	420
attgaacatc	agaaaaagga	cacttctgna	acaaggcttc	tgnggggcca	aagaaaaact	480
cttttcnggt	cctaaaaaat	tttcaaaaac	ccgacnctt	taatgggaag	cttcatttaa	540
aggccttntt	aaaanaacgt	tccggaantt	ggaa			574

<210> 10319

<211> 465

<212> DNA

<213> Homo sapiens

<400> 10319

aaaagaataa	aatttattgt	actctcctcg	cccagggtg	cccctgggaa	agcctgaggc	60
tacttgtagc	cggtggcctt	gngcttcggc	aagaaggcga	agctgggggg	cactggccca	120
aggagcatct	cgctgatgcg	gatccagtcg	gctgccttct	ggctggccat	cagcgtctcc	180
aggtagtcgc	ggcccaggta	gtagggcggc	cgctcggttg	tcctctgngg	gagccgntcc	240
agcagcccca	cgggcacgta	ccggcacagg	aaggacagcc	actcgagcag	aaagcgccgg	300
gtcttctcca	cgccctgcgt	gtccgagccc	cagtgtctcca	ggccgtantt	ggtagaagtc	360
cgcaggatgt	ccaggccgct	cggacgacga	gatgtcccan	tgccgntgnt	ccttgatctc	420
cgggaaaagc	cncnggttga	gcaaggcgcc	acgggcnaat	atgan		465

<210> 10320

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10320

gaagaaataa	aactgccttt	atttgagat	aacaatcaca	tacatagaaa	atcctaaggg	60
atttacaaaa	aaagctgcta	aaactaataa	ggagatttaa	cagtattgca	ggacacaaa	120

catttctgta	tcctaacaaa	gaataattaa	aaactggaat	ttaaaaaatt	atttaggctg	180
ggcatggtgg	ctcacaccta	taatcccagc	actttgggag	gctgagggtg	gaggattgcg	240
tgaagccagg	agtttgagac	cagcctgggc	aacaaaagcg	gaccctgtcc	acacaaaaaa	300
caaacaaagc	caggcatggt	gggtatgtgc	ctgtaatccc	agctacttgg	aaagctgagg	360
caggagccca	ggaaagctga	gacttggaaa	gctaagacct	tgagcccagg	aattcaaggc	420
ttgcagtgag	ctatgagcat	gccactgnac	tctanaatga	gtggccgaaa	aaataaacct	480
ctatccctga	gggtactatg	atgcatacnt	gacttgnttt	gggaaaaact	ttaacccttt	540
ttcccnnggt	ttatcctacc	taacaccan				569

<210> 10321

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10321

ggcatttgag	accgttgatt	tttaatat	tttaaaaa	atacaaagga	aattaactct	60
gtaggtcaat	acaactcagg	gaaagaggga	aaaatggaat	ttcagagcaa	aggttggtta	120
ggttatcaca	ttcccacact	cctaataccc	acaaaacaag	aatttcactc	catgacacag	180
aggaacattg	aatggtagct	cagaaatgtt	gatagctgag	gtactgaaac	taacaaaagg	240
atitttggttg	tccttgatta	ttctgtcctg	tgatgaataa	aatctacact	aaaggacagg	300
taaggaaaac	ttatagcaga	aaaaagacta	gatgtaccaa	acacagcagt	acaaaccact	360
ccttggcaga	catgtgcttc	taaaagaatg	ggggcagtaa	tcaggtagct	gaactactag	420
gctactgnca	ctcccagccc	atccccaatt	aaatagnggg	gaagggtaat	agnntagtaa	480
gtattgatcc	aacaaaagaa	ggntttaccc	ccattcaagg	gaacattggc	atggnttnat	540
naaccctggc	ngggaataan	aagcctgga				569

<210> 10322

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10322

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn					559

<210> 10323

<211> 565

<212> DNA

<213> Homo sapiens



<400> 10323

aaagcagtgg	tattctcttg	ctggtggcag	aagcgtatgt	cagagagatc	agaaaggtaa	60
ggaggagtca	acatgagaga	gagttgctca	cttgagatgg	aggcgggcat	gtggtctgag	120
aatgtgccct	ggccaacagc	cagcaagaaa	acagggacct	cagtcctaca	gccaaaagga	180
agtgcattct	gctaacgaca	tgacagagcc	tggaagtggg	tttttgccag	agcctccaga	240
aagaaataca	caggggctga	caccctgatt	ccagccttgt	gctgtttgct	atctgtttcc	300
tatctgatac	tctttaccag	gcaggcttgc	tggttttctc	aacctacagc	tagtaaacaa	360
gtgttgtttc	atgctgctaa	gctagtggta	gtctattaca	gagcaatccc	aaaccatccc	420
caccccacaa	actggccaag	taagagatct	tottgngact	taataaacat	accttaatat	480
atgcttatcc	tgattaacat	aaattccata	tatatatata	tatgaatgac	agcttntaaa	540
agaagtcnc	nttctntntc	aaggn				565

<210> 10324

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10324

agcagccttt	cctgctccca	ctttaaagat	ccctgggtggg	ccatgcacct	ccaagatggg	60
caggggagct	acaccattg	ttacaaatag	gaggcatcag	actctgtatt	taaaaacaga	120
actgtgcaat	gagaatgctt	taatcatcac	ccacacagac	gagcggaagc	tacagacaga	180
gaaccactac	ggatggtgcc	tggaacagag	gtgagaatgg	cccaaaaactc	tgctccggg	240
aaaggtgcca	agtttacagg	acttatcgtg	gtgccctcac	cagacccctc	ctncttctc	300
tctcctcctc	ctcctcctcc	gtggccgctg	gcggtcctg	catctcctct	ggggaagcct	360
gaggccggct	cgggtaactt	ctgctgcctg	agacagtcac	acgtgcttgg	gaccttnac	420
ctgangtctn	tggtgtctga	actggantgg	angtanctag	gontgggaaa	aaaa	474

<210> 10325

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10325

ggagagacgg	ggtctcgctc	tggtgcttag	gctggtcttg	agctcctgac	ctccagcaat	60
cctcctgcct	tggtttccca	aagtgctgga	attacaggca	tgagccactg	tgctcagccc	120
ctttgaaaat	attaattctg	acttcctata	attcccttct	atctactcat	gcaatacaat	180
tatatcttct	aataacttta	aaaattagaa	aattataatc	agagtacaga	tgtttctacc	240
agattaaagc	tttaaattca	acgtttaata	cctaagcttt	taacctgtct	tcagcaattt	300
caaaaagcta	atacaaatga	tcaacaactt	gtatatatat	tttactagaa	gtgtactcta	360
ccattttctag	aatacgtgtt	tagctttatg	acataatttc	aaggacgtat	tagaccccca	420
aatatTTaaa	aaagcngaaa	ggacctatat	nggatgattn	aaaatctcat	tatcctactt	480
cttgaagagc	taaaaaaaaa	ncaaccaaac	ncntaccccc	caagttntta	acatttatcc	540
acngt						545

<210> 10326

<211> 442

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 10326

caggtttcaa	aatgtacagc	cagggcatgt	gtcattttat	tagggctgac	tctccgtgtc	60
cgcttcctgg	gaaagaaaat	ccctgtgaca	tgaaccgatg	aagggacaga	agctatcaca	120
gatgctacag	ggctcagaga	ggggccgggg	caatctacac	tacagaagta	aaagcaacgt	180
aaaatgtttc	tgggtttcct	ttcccttcac	tcaaaaaccac	tatttcctta	gttctatcaa	240
agtacgtaag	gggcataaaa	tagactcagg	aactcggggc	taaatcatcc	aaaaatggag	300
ccaaggctct	aactagaaac	tgtctctgtc	gtccctgttg	gcctcaaaac	cccgaggtaa	360
aaggctggtc	tcggntcctc	ccaggccccc	tggntcccan	nacagtgcc	cgtcctntgn	420
gttcatcatc	atcgnttttt	aa				442

<210> 10327

<211> 580

<212> DNA

<213> Homo sapiens

<400> 10327

gagacggggt	tttgctctgt	cgcccaggct	ggagtgcagt	ggcgcagtct	agctcactgc	60
aacctctgcc	tccaggcttc	aagcgattct	cctccctcag	cctcctgagt	agctgggact	120
acaggagcgc	atcatcatgc	ctggctaatt	tttgtatatt	cagtagagac	ggggtttcag	180
tatgttggcc	aggctgacct	cgaactccgg	acctcaagta	atccacccgc	tttggcctcc	240
caaagcactg	ggattataag	catgagccac	ctgcccagct	catgctgatt	taaagggaca	300
aggcagcgag	aggcagaagc	agagaatcat	cctcctcaag	ccccaggccc	aggccaatgg	360
cgctgccttg	gggacttgcc	ggccggggacc	accacaaaagg	gtcctgcgaa	ggctgcagcc	420
gcggctgcat	tacctctggc	ctcgtctgca	ggtccagcac	ggntgogccc	gccgcatcat	480
gggaaccccc	cggcggggccc	tggctgggtga	ngatgatccg	ttggncnant	tggcaaaatg	540
tggngaccac	cttgacatgg	gacgtggggg	nctgtttgcn			580

<210> 10328

<211> 432

<212> DNA

<213> Homo sapiens

<400> 10328

gagacggggag	tcttactctg	tcgcccaggc	tggagtgcag	tggcgtgato	tcagctccct	60
gcaacctcca	cctcccaggc	tcaagcgatt	ctcctgcctc	agcctcccga	ctagctggac	120
cacaggcgtg	caccaccatg	cccggctaac	ctttgcactt	ctagtggaga	cgggggtttc	180
accacgctgg	tcaggctggt	ctcgaactcc	tgacctcgtg	atctgcccac	ctcggcctct	240
cacgccacca	tgcccgcccc	tgttcgttac	ttacaaaaac	ttctccctct	ctttgtgctt	300
actagcattt	gaagaaatcc	ctgcttctta	ctgcctgccc	ctcaaaaaca	caaaaggggc	360
caggatatgg	ggctcatgcc	tgtaatccca	acactttggg	gaggctnang	ngggnggato	420
acctgangnt	gn					432

<210> 10329

<211> 543

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 10329

gttgtcaata	tgcatttatt	tacttctttg	acaagtttat	ttttgcgtat	ctactatgta	60
cgatgcattg	aagtccagng	acaaacaaaa	cacagggact	ntgccctcct	ggagccgaca	120
tctgggtgagg	gagagacnca	nactntanac	agatatittcc	aaatagcagg	taagngctat	180
aaacaaaggg	aaacagggtta	atgggataga	gtgacagggg	gtgggatgag	ttgctatttt	240
anatgaagng	gtccaggagg	gcttccctga	ggagngggca	tctgggtctga	gggctagaga	300
atgtgaaagc	agctgtcacc	tganagctgg	agaaagaaca	ttccaggagg	agggagcatc	360
aagacccaaa	gccctgaggc	aaaaacaagc	ttgccatgtt	ccaggaacag	tgaaaggaca	420
tccattgacc	taatctcaaa	agcttnttgn	ccaaagacaa	gcaaagggga	cccagttccc	480
ttgggggggtt	ccaaangctc	tgtgcctgac	cccanaggca	nangntcctt	ttttcagggt	540
ggc						543

<210> 10330

<211> 586

<212> DNA

<213> Homo sapiens

<400> 10330

gacagagtct	cactctgttg	tcaggctgca	gtacagtggg	gogatctcgg	ctcatgcaac	60
ctccgcctcc	tgggttcaaa	cagtatttaa	atcctgcctc	agcctcccga	gtagctggaa	120
ctacaggcat	gcgccaccat	gcccagctaa	ttcttgcatt	tttagtagag	acagggtttc	180
accatgttgg	ccaggatggg	ctctatctct	tgacctcatg	atccgcctgc	cttggcctcc	240
taaggtgctg	ggattacagg	catgagccac	tgcgcctggc	gagaaccacg	actttttaaa	300
ggaaaccttt	tctcatgtct	ttattattca	tttgttttga	aaatatcatc	aagattaagg	360
atcagctaag	aaacagaata	atttacctct	tacatttcat	aattttatct	atttttgctt	420
atagggggaga	cttgagatta	aacgactccc	atttggtacat	ttttacaaat	attttgggtt	480
caagaaaagc	atgtccattt	tgangcttcc	atgnggnaat	tcttgagaag	cctaaggatc	540
tggcttcaac	acaangnttc	tggggcataa	agggggcntt	tggcaa		586

<210> 10331

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10331

ggctttcttg	gtcttttatt	tgtacccatg	tgtctgtcac	accatgaatg	tacctgggga	60
aatcaactga	ccaccctgaa	catttcacgc	agtcagggaa	cagggtgagga	aagaaataaa	120
taagtgattc	taatgctgcc	taggtcaccc	tcaaccccca	tttactggca	caattgggtg	180
gagagaaggg	aaggggtatg	attgtcctga	tggctcaggg	ttgcaggagg	ttcagagggg	240
aaggaggaaa	ggccaggctg	gaggctgggc	tgttagcact	tccctnccac	agttcaaacg	300
gntcactctg	ggctcagggt	tgccatggct	tcctttgggtc	caaacatagg	ccctgtcctt	360
agtcctgtgc	cctgtttgac	ttttggccag	gaggcctttt	tgtgctgctg	ctgtttgcagg	420
gctagctgca	tggcccatat	gctcantggc	cccatgtagg	ccantgagcg	gnacactcgc	480
ttgttgcaat	atgcctctng	gggctggaaa	ggccnaccan	gcgctccaca	cggaccggac	540
aanc						544

<210> 10332

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10332

gaaggccaaa	tatcttttatt	gcctccctcc	catccccaat	tccctgttcc	ccccaccaag	60
tcctgctagg	aaccatcctt	agattccagg	cccagggact	ccctccgagt	accaggccgg	120
tatgctactg	gccccgaggc	aggcgagggt	aggaagaacc	gggtgtccgg	ccttttagagc	180
gctcccagcg	aacacagtcc	cgagtcctgc	gggggtggggg	cccctgccag	ctgccaggcc	240
ccttctcttg	tggaggacct	tcaactcctt	ggctatgggg	ttctggcttt	aggtccatgg	300
gctccttgag	gggcccctca	ggagggtggca	gttcctgggt	gtcacgggta	cctttagggg	360
cgtggcactc	ccctcccttt	gggtgcctcc	gttcgggctg	tcgccaggga	cctcgactgg	420
gcttgggggg	atctagcata	gctttctggg	tttcgcccac	cctttgctga	tttgacctgg	480
tccctggaat	cttctnaata	tgtgctggtc	gcacagcnna	agaagtggca	aatggattgg	540
ccgcttg						547

<210> 10333

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10333

gagtgttttc	agtattttat	taacaaatga	gctggcaaga	ggacaagtga	tctagtagta	60
tcacccccac	cctcatggag	cagccaccac	aagcccacca	tgggtggggg	tgtccaacat	120
gctctgctgg	cccagttccc	agccgatccc	ctgagtcttg	gcgcccgttt	agtcaccctt	180
cagctgcttg	ggaggcagga	agagacttcc	cctcttcacg	aggtaaggga	gacaaaagca	240
gccatttgga	tgccagggcc	acaggggcaa	gccatgccct	atttcttttg	agggacagaa	300
tcacttcttc	ccaaggccag	acactgtagc	ccatgggtact	cagccttcta	gaggagggta	360
gcctaacaga	ggagaagccc	tgagtgggaag	cagcattttg	aaggcatcgg	cattcttaga	420
ccagcttaaa	actgaggggc	ttctctatct	ttggcagcag	acagtgagac	ttcaggatta	480
aaattaaaag	cccgngngnc	atcctttctt	gcattacttt	ccacaaaacc	ttggaggagt	540
caaatccc						548

<210> 10334

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10334

ctcctaaaaat	tttttattac	tttcagaagc	aatactgttg	canggtatca	acaaccacac	60
tatgtaccca	aataaaatga	atgtcagaaa	taaaaatact	gtcacaaaaga	agcaccctt	120
attggaagat	gtattgaaga	agtcttatta	cactgaaatt	ttatggcaca	gatcataaaa	180
tcagagtctc	ttcacacata	ataacaattc	atccattttg	aaatgagtaa	cttctccttt	240
gtagtgttgc	tagtataaaa	aaaggtacaa	gttcaaaaata	tgotggcaac	atacaaaagt	300
ggccaatagt	tttggctctt	gagagtacac	cctgcagttt	aacaaaagact	ggctttgaat	360
cttccactca	aaagcacact	tctcttccaa	aaagatgact	gcccactga	tgccatccca	420
gagagcagat	atcccaacca	ccaacttgaa	atggctgaac	aaagaaaact	acccaattac	480
tttaaagatg	gggaagcaaa	atcaatggcn	anggttttaa	aatontagga	attttaaaat	540
caat						544

**<400> 10335**

**<210> 10336**

**<400> 10336**

**<210> 10337**

**<400> 10337**

ataacgaaag	gagatttatt	tggtttacgg	ttctgcagac	tgnaacaggaa	gcacagtgcc	60
agcgtctgct	tntgggtgagg	gcttttaggtt	aattccattt	atggcagaag	gagaagggga	120
gctggcatgt	gcagagacca	aatgacaaga	aagagagagg	gaagggagct	tacaggtttt	180
tgtttttgaa	agcaaaaaca	aaaaacaaac	aaacaaaaac	ccaaccaaac	aatagtactc	240
cttccactnt	atgctaacgg	aagacttntn	acaccagcca	gttaaacaat	gaaattntta	300
aacacncagc	ctgctggggc	tgcatgcaga	gctaaaatgc	aggtgtgctg	acttcttgga	360
gctggagcag	aggaaaacat	naaaaagcat	atctggaatc	tatcacagct	ttctttctta	420

agcaaataaa	aatgcaaatt	aggtttcata	acccccattt	caatttatca	aactttttct	480
ggaagaaatt	tcatttaatt	atggattncc	ttaccaggga	ataaaacntt	tttaciaaac	540
cttttnangg	nttncg					556

<210> 10338  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 10338						
gggaaggaca	tttttatttt	ccctaattctt	caggcaacct	caccaagctg	gaggtcacat	60
gtagctgagt	gtgaaaccaa	gaaaaatacg	aagcttcaaa	agtactgtgc	gttgtatttt	120
ttcattctct	ggcaggctgg	gagtccaagg	tcagtctagg	caggagggct	gcttggccta	180
agcagtcaca	caattttcac	cgtcttgagc	atatctgaca	agacatacgt	gtcatcccaa	240
cccctcccag	gcttccctcag	ggtccgctcc	aaagcctggg	ctgtttctag	gagctctggt	300
gtggcaagtt	tttgctcagg	gtgcagctga	cagaacagga	tctcattcac	ttcaccctca	360
attcgccgga	catataggag	ggggaaacact	gccttgagcc	cagccagcac	tgagtctttt	420
agccccaagt	ctcggcacac	aagggttgaga	ataaaacacc	ttcaggagtc	aagatctttt	480
aacctttgta	gaaaaaaatg	nttcccaaatt	gctggggccg	acactaattc	cagngttggg	540
ccctactggc	aacat					555

<210> 10339  
 <211> 487  
 <212> DNA  
 <213> Homo sapiens

<400> 10339						
ggctgctgct	tccgtttctt	tattacctga	gcccatccgg	accctnaaga	caactggagc	60
ccaccctgcc	ctggaaggct	canctcccct	gcttgaggac	nccgcacacc	tggtccagga	120
cgtgacacag	gctntgggtcc	ttgggcgtcc	tgctggccaa	ggagatctta	agcttgctga	180
ggtaggtgtg	ctcctggctc	cagggttcct	ggagcctnac	gaggtcaggg	gaacccttgt	240
anaactccac	cagcagcatc	atntcgtgaa	ggatgtcatt	ggtcagggaag	ctgtcctgga	300
cgtaggccat	ntncacatnc	atggggatgc	catagtcact	gggcctttgc	tcgggaggag	360
gcathnacca	gaaaggcgag	atcttggact	cggggcctgg	gttgccaaaa	tagtaaaggg	420
gagcananca	gggccaaggc	anggccttga	aaccatttgn	tgnacccttg	aaancncaac	480
ttggttaa						487

<210> 10340  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<400> 10340						
acagagttaa	caaataagca	gttttatttt	caaaagtaca	tagtaagtcc	agactgggct	60
attgccaaaag	aactaatctt	tagtctactt	caacatgtta	catgggtattc	ctgactctac	120
agactatcag	catctgtgga	ggttagctcc	taaagggtccc	aaagaacagg	aaacatgcag	180
gaataaagga	ctcctcatga	agagcagggtg	ggagcgagtg	ggcaggcctg	tatcttctca	240
gcaaagtaag	gattgagtat	agagagctgt	ttgtcttaac	tgggcttccc	tgaagaatct	300

gagccaaact	ggaagaaacc	agcctcattt	ccagtgttga	gatgttagct	gtacagtggc	360
tgtacaactg	cagagtttat	ttatagaatt	agaaataatt	ttttaaaatt	ttaaaagggt	420
ttgtgtaatc	attaaccaga	agatgatatt	cacaaattct	ggtaaaaaat	ttgactcttc	480
actatcacca	tatcaacnng	gaaaccaggg	ccatgccanc	cagggaggac	tgnccttanc	540
gccattangg	aagttgnccc					560

<210> 10341  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

catgtacaaa	gccaatcatt	tatttagcac	taaaatcaaa	ttataaaaac	aacaattcca	60
tcttaaaaaca	ggcattttta	aagcatttct	gtggttctaa	gtttgcatca	agacagccta	120
agtttgcatc	tgacacaatc	ggatacccaa	atccctctat	aatttccaaa	gacaaagaca	180
atttttgcta	gttgtagagt	gtcaggggga	agcagtgatg	ccctgcaaac	agtctaattg	240
gccaggggaa	ccctgtttct	ttctcaacct	gaggttgcat	ccttgatctc	caggaaaaga	300
gattagtgtc	tgcttaacca	ggttcctagt	aaatggtcag	ggatcttcta	tgcaataatg	360
ttgcaaaaagt	tactgaagag	gaaaaaaaaag	cacaacggag	gottcttgcc	catttacact	420
tgcaatgtta	gattttgaaa	acagggccct	tcatagtcag	cacccaagtc	ctggactttc	480
agatgtaatg	cangctggnt	aacaagccct	taatactaca	ttggaatttc	naacgacttc	540
ctggacagtt	ttttaaan					558

<210> 10342  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

aaatacaaaag	aaaattttat	ttgtatatca	aagactctaa	gaaatgatga	cataaggtta	60
acagagttga	tgcaagaca	aataggtttg	aagttataga	tgataaatca	ctttgtctta	120
ctgaaccttc	ccttgattac	gttagagagc	atccctggta	tgctcccagt	tgaatcttaa	180
gcatgatgtg	tgccgggtg	atataatcgt	aattcctttc	tgtaaatcct	cgttctctct	240
cttttttttc	tttttcttct	ttttctctgg	actagcaatt	gctgtgctgg	tacatggttc	300
ttcctcagaa	agtggttctt	ccttaatgtg	tttcttttta	ccccctttct	totttctctt	360
cacagatgtt	tcttcttctt	ctgccacttt	ttcttcttcc	tcttcttcaa	ctttaacttt	420
aatcttggct	tttttnggct	ttcttttcaa	gtaatttcat	ccctctttat	ctaccnggtn	480
ctaattttgc	gttttttaaa	acaggttggg	angtgtngga	gtcaccca		528

<210> 10343  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

aaatacaaat	gttttattac	gcaaaccaca	tgtaggtccc	aggctcaggg	gcttacccta	60
cagcccccac	tggtccctgg	ctccaagcct	gctccttgcc	cttgcccacc	ctggaaagcc	120
aggatctcct	atggagtgtg	taggtgtcca	cgagtgtacc	ggtgtgcggg	cctcctgggc	180

tgcaggcact	caggcatggt	ggcagcattg	agggaaagac	aggtgttggg	gagcggggtc	240
cccacctgcc	caggctcagg	agtcacaggg	gtctgcacag	tcctttctgc	tgttggaacac	300
gtgatagatg	ctggtcgggg	ggaacatagc	aacagcgccg	agcagagagc	ccacctggat	360
ggccacgccg	gctgccagca	atgccggccg	gccccgccat	gcagcagggg	gctggctgca	420
ccttacgtag	gagaacacgc	caagacacag	caccacacgac	agcaccacacg	aaggaccacc	480
cccggcgang	ggcccaccaa	gggcccggcaa	gggcttaagg	aatgcancgn	catnanggaa	540
nccccacaan	aaaac					555

<210> 10344

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10344

gagacagagt	cttgctctgt	cgcccaggct	ggaatgcagt	ggcacgatct	tggctcactg	60
taacctctgc	ctctcagggt	taagtgattc	tcattgcctca	gcctcccaag	tagctgggat	120
tacaggcacc	tgccaccacg	cctggctaata	ttttgtattt	ttagtagaga	tgaggtttca	180
ccatgttggc	caggctgttc	tcaaactcct	caacctcagg	gatccgcctg	cctcgacctc	240
ccaaagtctg	ggattacagg	cgtgagccat	cgtgcctggc	ccagcctttt	cttaaatact	300
tccagagaca	gggagctcag	tgcttctaga	gtccatctga	ccagtgatcc	gcatttggac	360
cacattagaa	aaagtctgnc	ttctttttcc	tagggaaatt	tgccnccga	acaagaaccc	420
gctggtccaa	gctttgaatg	cnagtggctt	gcgggcagcg	cactggatta	tctttcccg	480
atgacttntg	aaacacttaa	acgcccacaa	cctggatctt	cctctgntag	gctgccattt	540
aaagccagtt	ttgagcctntg					560

<210> 10345

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10345

gaagcaataa	aagcacagat	ttattgaagc	aaaagtatat	tccacagagt	gggagcaggc	60
taaagcaagc	tgctcaagag	ccccagttgc	aaaatctggg	gtttaagtac	ccttttagggg	120
tttctatttg	gttacacctt	atgcgccacc	aatcgagggc	cgaagtgaag	gctcccagtc	180
tccagactct	tattctccta	gctcaaagaa	atccactgat	ttcctctgta	gcattctcag	240
gttccatctt	gacaacttcc	tctaaatccc	caggggaaga	gttgtttaga	gactcctgga	300
tgccctgagg	gagcggctcc	agagcttgct	tcctctctct	gttttcacaa	cggtccagcg	360
ataggcaactg	ttctctgaca	atccttcttg	gcactgttta	togactgggtg	gaggccctgg	420
gctatgttcc	actttgggga	aaacagtacc	aganagagga	gatagttcct	gggctctaaa	480
ttgggttcta	ggccctgaaa	ggcatttncc	catnagcccc	aggacaagca	tgnnccatt	540
catggggggc	cttatt					556

<210> 10346

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10346



gtgtagacta	ctttctaata	tttttatatt	ttagcaccaa	aaggagaaaa	catattgtta	60
caaggctggt	tatagtgtct	caatggacac	tgcaaagaac	tacataaaag	aagtctgtct	120
caagcagttc	gtatttgagt	cagtggtcag	atggggcagt	tgcgctcagc	tgcagtccct	180
gactccggaa	acactgtgcc	tctcaaatga	tctagagctc	atccttggcg	tacatgaggg	240
gcagttgttg	ttctagtacc	catttagccc	atggctcttc	aagccaattc	acactgggaa	300
aaacacaccc	tcacaagatg	cctatccatt	tgagttcata	caggttttag	tagctagaac	360
taaaaaacat	ttttaaaatt	atctaaacaa	attggaccaa	aagaaaactt	gccatactta	420
aacngnatat	atggctccctt	ttttggctga	aagatcaagn	ttgggctntt	ngaccttacc	480
ggtactaagg	ctnggaaatt	gccggaaaag	gttttttaac	nttncatant	ttaaggagcc	540
cat						543

<210> 10347

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10347

gccaaactac	cttgttttat	tggattttga	gtaaaaacat	gaaccatgtc	aaagtttcca	60
ggcagactcc	taaaaagcat	tagcagatct	ggaccagagc	aggccagggg	cagggaggtc	120
cctctatcag	gttttgaggg	gggttgagcg	ccgaggtagt	gggggctggg	agggtcgagc	180
cgtcaccttg	ctgggtgttt	tgctctgggt	gttgggctgg	gaggggtggg	ggccgctgga	240
ggtgaacagg	gctgtcaaag	cgttcggggc	gttgattgct	caccggcgcc	tcacaggtcg	300
ggtgggtggg	ctgggggttt	tggccgcttg	natttctgca	ggttctcaaa	gtggcccaag	360
gacttgcaat	gggaaagctg	tggccctgaa	ttgctngat	agaacttgtg	gcanatccgg	420
agatatagcc	catnacgggc	ccaggaagtc	ncaccatatt	cngaattggg	gcttganggc	480
tccgagccct	tcaattcttt	ttgganaatn	t			511

<210> 10348

<211> 428

<212> DNA

<213> Homo sapiens

<400> 10348

gaaactggaa	taagtgttta	ttttctatta	ataaaaatga	attgtgacaa	aagtggactc	60
tggcttcccc	tccccctcn	ccccacccc	tctgggataa	aaattttcca	gcattgccag	120
gagctttcag	gnacacatta	aagaataaaa	ngaagttaan	cngctggagt	ataggatagt	180
atnnganttt	caagatcacc	caaagctgca	ctaccgtccc	aaagctgacc	aagtagaata	240
aaaagaanag	gaaaanaaag	nacaacccat	gcgcaaagat	agacatttgc	ttgatctgct	300
ggctcagggc	caaattgtta	atttgcttct	ccaaagnogn	tcattctcaa	aagcngattc	360
tgggaaactg	atgccnctag	nctaaaagcc	cactggccat	gggaggggca	tnaatttccn	420
cttggcca						428

<210> 10349

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10349

09629469.02800

caagtttttag	agaactaaat	ttgcatttgt	taaaatcaaa	aagtaggaaa	gatgttcttt	60
acaaaataatt	ttgatcaagt	atgtgttcaa	agaaagcagg	ataaaaaggc	tttttctcta	120
acattctgtg	ttgtactgta	ttgttgttca	ataggaatta	gcttctgtca	tttgctaaaa	180
gaatgagtag	tggggaacag	gatatgttgg	aaatttcata	acgggtaaca	gaaccattct	240
cttgggtaaa	ccataggcag	gggcagctgt	gctgtaacca	tatgggtgtc	catagccttg	300
agctatgtag	ccaggagcag	ctgtcgcccc	aacaaaagct	ccccttggtg	gaagtccctc	360
ttcctctggc	ccgaacagct	tgggactgct	gcagacacag	ctggattcac	aacgcccttt	420
gcctganggg	ataatcttcc	ttttccta	aatgtgcccc	atnggggncc	anaaaacagg	480
ttntccaagg	agcttnaagc	ttggacttgg	cctttgccct	ttttttaatt	ggacctggnn	540
cctttg						546

<210> 10350

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10350

ctgagacaga	gtctcactct	gttgcccagg	ctggagtga	gnggcataat	ttcggtcac	60
tgcaacctcc	acctcccgaa	ttcaagcgat	tctcgtgcct	caggccccc	agtagctggg	120
actataggca	tgccacatca	tgcccagcta	atttttgtat	tttagtagag	acagggtttc	180
accatattgg	ccaggatgg	ctcgatcttt	tgacctatga	tccacctgcc	tcggcctccc	240
aaagngctgg	gattacaggc	gtgagccacc	atgcccggcc	ccaggatatt	cttctgtgca	300
aagtttagga	aactccatgc	acttntcaaa	acatcagatg	ctggggactg	gcttatacaa	360
gaaatatgga	gaacacatat	aatagatttt	agccatggot	aaattttcag	aattttaccc	420
gagaccgata	agtggnga	aactccctga	aagttggatt	taaagtcana	aatctnttt	480
cggggggggg	ccgttctant	attttgaana	actntttcaa	atggctggca	aaaggggcaa	540
tnccccctt	c					551

<210> 10351

<211> 506

<212> DNA

<213> Homo sapiens

<400> 10351

cattgaaaaat	tttacttgaa	aaaataaaat	tccagatact	caggtgagac	acaaaccac	60
tgttcctgct	ttgagacctg	tgaattcttg	tgggacagtt	ccactgacag	cttgcgttcc	120
cgaggtagca	gtcctcagtg	acctcgggaa	ccccaaacc	ttagggtccc	aagccacaag	180
ggtgcccttt	gtcttgctgg	gaagctggct	gagggcctgc	cagggctgga	ggaccagctc	240
tcccgcacag	ggttcagggc	ctctcccaga	aaaaagaggt	tttgaagtga	aaaggcaacg	300
agggggccaga	gggctcccca	ggatgggtct	tttggaggta	agattttgat	gcccacaacg	360
catgcaaggc	taagaccccc	aacttagcca	acgaagcccc	tggnotcana	aaggcttgaa	420
ctttgntnag	gccnggncc	agatgcatct	ggacgggtnt	ccaataaaaa	gccccagggt	480
ttgctacctg	gtacctgctg	ggctnt				506

<210> 10352

<211> 548

<212> DNA

<213> Homo sapiens



<400> 10355

gaatgaaaac	catgaattta	atgngacatt	gggggagcct	catccttccc	tttttaccac	60
ccacccatcc	agcctgttgn	gagttgggtg	agggctgccc	ccagtctccg	tcctgcggnt	120
ntgggtgcca	tcctgttcct	ttgagctcag	tcagcctcct	gggctcgtct	ntntgnga	180
ctccttcttg	cgtattcata	tagngcttgc	ttgcgctcct	gcaggctntc	ctgccggggc	240
caggaanact	tggcaaatgt	tagggctgtt	ggctgagggg	tcaccggggc	anagctggga	300
aactgaggng	atcacaatgt	canagggctt	gcggagtcac	catcattaaa	cacgcacga	360
atgccttggg	ggcanaggct	gtgggtaggg	actgagttcc	cttgngatg	tcttcaggca	420
tgaagctac	ggccccctca	acagattaat	gatagcaagt	ctacacaagc	cagtcttggc	480
cagggtctnt	tgggtgacct	aanggccatg	ggggnaaant	tncttgactt	tttgagccna	540
angtg						545

<210> 10356

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10356

accatggaaa	aacatctgga	tttcatttgg	tagtttaaag	gtttttgaaa	atgttgatat	60
acacaagctg	tacttggagc	tggataacag	acataggagc	tggatgacag	acatactttt	120
attcttttat	ttttgagatg	gagtttcaact	gtcaccacag	ctggagtgc	atggagcgat	180
cttggctcac	tgcaatcctg	cttgggtgac	agagcgagac	tttgtctcaa	aaaaaattct	240
tttaattaaa	aaaaaaaaaa	agctttacta	cttcctgttg	agttcataaa	aagttcttcc	300
ctttgtttta	gtcatccaga	gtaaagtcac	agggtcctaa	gtotttccgg	aagcggcgag	360
ccagggtctc	ctcgttccct	tgctgatctg	acactggctn	cagtcagact	tatcaggaac	420
attaaggatg	gcttcaactg	ccaggacctc	ccttccaact	gcaanggaaa	atccttttaa	480
atctggggaa	aagctttctc	cggggcaagt	cacnttaaaa	aatgccgntc	cngctggcaa	540
tcggttgatg	naaangg					557

<210> 10357

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10357

gagatggagt	ctcactctgt	tgcccaggct	ggagtgcaat	ggcatgatct	gggtcactg	60
caagctccgc	ctcccgggtt	cacgccattc	tcctgcctna	gcctcctgag	cagctgggac	120
tacaggtgcc	caccaccacg	cccggcta	tttttgtatt	tttagtaaaa	atggggcttn	180
accatattag	ccaggatggt	ctngatctcc	tgacctcgtg	atctgcccgc	ctcggcctnc	240
caaagtgtct	ggattacagg	catgaaccac	cgcgcccgac	atgcttggtg	atgnttagta	300
aacagcacag	tcaggttacc	aggtagcttt	aaggagagag	tccactccaa	aaaccgggtg	360
tggcaggatc	cccgtcctgc	atttccta	ccactcgttg	tctaccccca	gccttttaag	420
tatggccttc	tgaaaacctg	accctgggaa	gctgggaacc	tnaatttggg	caaataccat	480
ggaatnacct	gatgcncana	atttaactta	tccaaagggg	aacttatggt	taaagccctn	540

<210> 10358

<211> 416

<212> DNA

09629459.072800

<213> Homo sapiens

<400> 10358

gagaaaacca	tttttattat	cattaccacc	cagcttatct	gtgctggatt	atgtaccaa	60
tggccagatc	ttctaaagaa	catctacata	acatttcttt	catgtttcaa	gagatgaaaa	120
taactgtaca	aggttaagta	caaaagtaca	caagacagcg	gacacgaaaa	aatccatgta	180
tgagatttta	tccccacctg	cagcttttat	atatttgaaa	agtagaattc	atgaactaaa	240
aaatattatc	cttctatagt	cctgtcaagt	ttaatggaag	tgggtttaac	ctgattacaa	300
cactaacacc	agtatcactg	atctgatatt	tacaaaaatt	tggatttttc	aataaattaa	360
agtcaatgca	acacccatgc	aagctagagt	gctanctggt	tngnngaaca	nggnncn	416

<210> 10359

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10359

cttgtttcaa	gtccaattta	tttcacacaa	cacacaggct	gctgagggaa	tccacctgca	60
ctgcaactcag	ttgaacttcc	ggcccagtg	cgcgtcagag	actaaaccat	gggagaaagt	120
tcacaccctg	gcctgggcca	cccaccttca	gctctctcct	gtgcgtcagg	acgcacgctg	180
gccccaaagag	cttcaactcaa	cacggctggg	tcttgggagg	acgtgggcac	agcacttgcc	240
aggcgccct	ggcaggggct	cttctcagtc	ctccgcaccc	ctctctctc	cgtgtcttc	300
gtcgtcgacc	ccacctcgg	cgcctcaac	ctcctcactg	tctcttccg	agtccgtctc	360
ctccagccac	tccagagttt	ctgggtccat	ctccaccaag	gccttccacg	cctcatcctg	420
tgcangtcca	ggcagtgcan	gtcgttaagg	tganctggcg	gcggcgggct	tnaaaatgcc	480
ccatagacta	gagcacccat	tgcttaaaag	cagcatggcn	tggacctgga	cacggcccag	540
tgcnggnttc	cggctttna	aggt				564

<210> 10360

<211> 481

<212> DNA

<213> Homo sapiens

<400> 10360

ctaatttccc	tttaatttgt	agatttaacc	acagaactgt	ctcgattttt	ataaaaattg	60
atoccaaagat	ccaccttctg	ccgtggctgc	cacagtcacg	gctgagcttt	tctctctgag	120
ccacacacgt	gtgttcccgt	ccagcccaaa	ggggagaggt	gtggggcggg	ggggcgggga	180
ggcgccctgt	gctgtggcac	tggacacggt	gctcatctgc	aggatagcca	cgaaggcaaa	240
cggcacagac	gaagacaaca	caagacacac	gagcctggtc	ttccatcctc	aggactaaaa	300
ctgcgctgag	agcaattcac	ataatctctg	agaaacggct	tccttacttg	tgcgcagcgt	360
gagccgggtac	atcttgggct	tgcaggttcg	gntccaacgc	agcangcatn	caatctgggt	420
gggttttcgn	gtggatgaat	tccagttcca	cgaantcca	ngattaggac	aacttnttca	480
a						481

<210> 10361

<211> 560

<212> DNA

<213> Homo sapiens

09629459-072800

<400> 10361

gaaggagtta	attacatgta	ttgattaatg	gatagggtaa	acagacgaaa	atcaataaac	60
ctgagccagg	ctgccccaga	gtgctcccat	gcctgggctc	tgtctgctaa	gagggtcaga	120
ggcagtcctt	cctggtcagt	gccaggatga	agccagtcct	gggccagggt	gctcaggcct	180
ccagatggat	tgccctgggt	ggtgacatca	gcatgggcta	cagatcagtc	ctaggatccc	240
gctcatcact	cgctatcggc	ctcggcctca	ctgcctgtgc	ctgcccagcc	atatgggtgc	300
aatggcctgc	ctgagaggag	aggatactgg	ggagggggag	aaggcctggc	acagtactgg	360
ggaagatgga	agcagcaaac	aaggctgtga	acacagccag	gatcaagcca	gtgganccag	420
tgcaaacaca	catgctcana	tganggtggt	ctcctggaac	ttttttccaa	gtaaaaccgg	480
taaagaggaa	gggcttaagt	cnanggctgg	aacctgccct	taanaccatt	tttggtaacn	540
ttgnccaatg	cnnggggctn					560

<210> 10362

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10362

ccattaagga	gaacatgaat	ttccttggag	gtgaggctcc	aggtagggac	agggcctggt	60
ctgctgaagg	ccacaggaag	caaattggccc	ccagtccacc	tttctgtccc	tgccatgaag	120
ggccattaca	ctgggggtggg	gaggtcctca	ggaggggtgtc	acacatagcc	ttaggcaata	180
gcaagtcctt	cctattcagc	tctgtccagc	ctccaattga	ggagggataa	tgggggtgag	240
acagggtttg	gggtgaagtg	gccacaaaac	coggcaaaaag	tgagcagctc	catcttgtct	300
gaagttaaca	tcatcccctc	aggtataaag	cctctcctna	catcgacttt	ggtaaaccag	360
tcagtgcag	gccttggcca	agctganact	tggcaaaaac	ctgaaccaag	tgccnccgg	420
aaagccataa	tcctancttt	tgnccctcca	atgcttaaaa	gtcacaatgt	tccccatggg	480
catccctttt	cctgaatcng	ctnntngtgt	gaaaccnggc	cagcccgggg	ccta	534

<210> 10363

<211> 454

<212> DNA

<213> Homo sapiens

<400> 10363

ccagtgaag	acaatatata	tatatattgga	ggtagaaata	attacaaaaa	tactgacatt	60
tctaaagcat	tagcatattt	gttacaaaca	atcaccaact	aatccccatt	cagaaaactg	120
ctttgtaaaa	tgattattca	acatcttcag	aactacatat	ttgtggcttc	ttttttgaaa	180
tttcacgtgt	gagtatttgg	agaattcagt	tagtggcaaa	aagttgtcca	tactatgaga	240
aatgtaatat	ggaaattata	aaaagttata	aatgttcata	aacccccatg	tcatacataat	300
gtaaatgtcc	ttgagtgcac	caagttgata	tttcctcatc	aattgagagt	tcacagttct	360
tatttcacag	gccattgat	gttttttagta	atgtggctat	atctgctggc	atactccctt	420
natnaccttc	atctactgna	gncatatccn	gnnc			454

<210> 10364

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10364

cttttttttt	tttcgatgag	caaaactgaac	tttaatttgc	ttacctgaaa	ggcttgctct	60
tcattatttg	cataggccac	agctattttac	acagaatcat	tgtacaggat	ttacagcaag	120
atgctacaca	tagcatcatt	ctggataagc	gacaaaggag	taagaacaga	ctggggaata	180
aagctctgaa	atcaaagtgt	aagcagaaat	ctgaaggtag	gtgtacaagg	aaggataagg	240
gccaaatgat	gagcgagggt	ggtgaggtag	acataaggga	ggaagaggaa	acatccaaca	300
acttgtggtg	cagagatata	agggaagagt	ccactggcac	atagtcttaa	aaattatgtt	360
tggagtttga	aggaggaaaa	atctgccata	agccacctct	gtgagaaaaa	agaaggcagt	420
tagaacotta	caggccaaac	cttatacctc	cctatcaaaa	gtaatctgct	gattaatcct	480
ggataggana	atgagaaggt	tgaaaaagaa	agagaggaga	tgcttgancc	cgnaccttaa	540
ccggagttag	agaccaagg	aaatttnttc	aggaaaggnc	ccaggaa		587

<210> 10365

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10365

aaccttagtt	taggtaaatt	taatgactgt	aaaagctgtt	cacatagcag	ctttaagag	60
acacgttttc	cactgacata	aagttgcttc	gccccttgca	gottatctcc	accttcatga	120
cctgtttcct	cagtggcagg	caatgtctcc	ccttcctgtt	ggggaggatt	gcccgaagtca	180
gctctgaggc	catcctctca	ggtcagcaat	atgcagaaga	gtccctcaga	gtggtcctgc	240
agagaacatg	tcccttaagt	gtctgagaac	tggctgagg	gatcttcacc	agcacatagt	300
ccccaggctg	ggctctgacc	ctgagcccag	ggttattgac	atcctccatc	tctgcatcag	360
ggaagatcac	cttaaggttt	ccatcattcc	tgccacacag	gtcaagtggc	agaaccgttt	420
actgagccct	tccactagca	ccacttgggt	acaagcccac	aagaaggctt	gattgggctt	480
ttgggtgcttc	ttctcggaag	atagtgatga	agttccttca	aacgcttaaa	ttttancctt	540
tccgggaaaa	ttattcttta	gncctttgan	atgncccngn	ntttttg		587

<210> 10366

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10366

gtcgtgaga	atattttattc	aaaaacaggg	attgaaaaaa	ctgtacagag	tgtctgctgc	60
tgagaactgg	gcccctgccc	catgccactc	ccccagctac	ctggcagtg	cccctctttg	120
gggtgcccc	tgacaagccc	agccagttca	ttccagtcaa	aagggtatca	gtggaagcag	180
caagaaatct	gcaggtgggtg	gggagagaag	cctggcccca	gctacccaac	gggccctcct	240
ccctgactcc	cacaaggatg	cagtaggcca	ggaagcccta	agggatgggg	agtgcgtgag	300
tgacacccgc	catggtgggg	gcactaggga	gtctcctggc	tgctccctgt	atccaagcac	360
agagctgagg	aggtaggggc	ccctgccctg	gggcttgccg	aacttnagac	ccctgggcca	420
naactgnccc	actctgagag	aaagactcca	taaatggagc	caggtanggg	gtgcatcatg	480
cgtnctggccn	taccgcgttt	ggacccangt	ggagnttctt	ggccggtagg	tgcaaagnaa	540
nccctgt						548

<210> 10367

<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 10367

atattttatc	aattttattg	aaatattcca	aggatcccaa	ccccatttaa	aaataaaaat	60
tgtaaagcac	tccattcaat	aaaagcacat	aagtccccct	caataattag	tatgacaatt	120
cacgatacag	ctcttactct	gggagagttt	attttaccct	ttattccaaa	aggcacaaag	180
tcacttgagg	cctcagatat	taaccccact	gcatgttaat	gacacaccac	tgagggtgcag	240
ctcaatgtaa	ttattaaagc	ttataacaca	cttccccaag	aatttataga	ttctttctat	300
aaataataat	ttaaaaaata	ctgcacctta	agaccaatac	aggcttaaca	aaagacctga	360
aatttctgca	agggcagttt	tgtttcttga	tagaagtaca	acttttgaaa	gtctattccc	420
agcaaaagaa	acactagacc	cagcttggcc	aaagaaacaa	aataaaacag	gtgatttcta	480
acacgctaaa	ggagtcattt	tcacagctt	ccaagaaagc	agtctgggca	ttcagaaagg	540
ttctatgata	caccagctgn	aggcattaga	aata			574

<210> 10368  
<211> 570  
<212> DNA  
<213> Homo sapiens

<400> 10368

cagggaggag	accactttta	ttgcttgtct	gggtggatgg	ggcaggaggg	gctgagggcc	60
tgccacagac	aataaagggt	ccctcagcgg	atgtggggca	tgccaccaag	gaagggggtc	120
ttcatgcagc	cgggtgcagag	ctggtccatc	cagaggggtg	cctcgtgctg	cagcggcgta	180
cggcgtgggt	agaagggtgaa	gtccacgcgg	tagtttagca	ggcagctgag	ggaggccatg	240
tagagggtcag	agaagcgcac	gaggcgcctt	gagaagtagg	tgggggttgg	gaaggtgcgg	300
aagatgctgc	cgaactgcgc	attgaacagg	gccttgggtg	tgccacctcag	ctcctgccgc	360
tccttcaccc	aggcagccag	cacctgcctc	gactccgcgt	cctgataggt	ctgcatgcgc	420
tccagcagcc	ccgtgagcgc	ctgctgccac	gtcagcnagt	gcatgtactg	ctccgtgttg	480
ataatccgga	tctnaccttc	aactngggga	taatggccct	gtccccaacc	tgccgaaca	540
tgaaatccgc	nnaacacttt	tnaagnggcc				570

<210> 10369  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 10369

aattacgcat	tttaaataatc	aatatgtgca	tttgttttta	cagttataaa	ttttttctc	60
acctgtttta	gacaacagct	tgtaatagtt	ttgaatccat	taagatgttg	ctttcaattt	120
gaaatatttt	gtgtatacat	gtatataaaa	aataacccaa	tgatgactc	atctgaccga	180
tgtttaagat	caataacggc	ttatttttca	acatgcagtt	aggaagagag	ggaagcaagc	240
caacctctct	acagtatctt	tttgctggct	tgtttttgta	gtggatatcaa	tagtggtttt	300
tggagggaac	catgtgcctt	cagcctatct	agtcaagatc	agataccacg	atcaacaaga	360
gcggtagaag	agatggggaa	aggggagtg	gtaagtgtta	aatatcaatt	ttgtaaaagt	420
tgcattttgg	actccttcta	ggcacaggat	taaaaacagg	nccatgagga	aaaatttgta	480
taattaggaa	aaactggaat	caaatacaggc	ctaatagcgg	aattaaggtc	ttttaatagn	540



tgnctatntg gaggttaacc tncctt

566

<210> 10370

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10370

gggaaatgat	gttcttcttg	acgtataaat	aaccatcagg	tggccaattc	tcatccagag	60
tggacagggg	ggaatgggat	catccctgct	ttcaaatagg	gacattgacg	tacagagaga	120
ggagtgggtt	agctggggcc	ccagggcaca	gcttcaccac	cctggggagg	tctggggaga	180
gcatcctgtc	cttcaggaca	ccccccacca	gcggctggag	gtgagcacgc	catgagtcgc	240
cccagggtct	ggaagagtgg	gtgcatgggt	gcttaagagg	ctgcattctc	agcggggcct	300
gcacctgccc	cgtccctcaa	cccctgtagc	cgacgtctcc	tctgctccac	ttgatgtcga	360
agccgggtca	agaccagctc	tgaggcctga	atcaagctgt	gctgcangat	gtgcacgccc	420
ttcagggaga	ccacggnaag	cttctgcacc	catcccggtc	angtccacgt	gagccatggn	480
cacaggggac	tgganaacnt	ccgttgcnca	gcanatgg			518

<210> 10371

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10371

gaaacaagta	aatcattggc	tttattcttg	gtcctggaag	ctccactgtg	agtctgaaaa	60
aaagacacaa	caggggcggc	agccctgggg	gctggtgcag	aaaatagtoc	ctggctcctc	120
tggccctggg	agcctaaagg	gcagttagga	gaaggcttag	caagaggcct	ggagcagggg	180
aagtcaggtc	cctcaggaac	ccctcctccc	ccagaggaag	gaggaagagg	gctggagagt	240
ctgctggaga	gtctgctcag	ttcctcagca	actgcactgc	aggagggtgc	aggccatggg	300
ttactccttg	cccttctcag	gggcagtggg	ctcccagagc	cacttggttag	tccccagggg	360
ctcagtccca	gggtccagcc	cgtgactccc	ctaagggccc	ctcgcccttc	aagtcagctc	420
notcaaaaga	ngagccgttg	cacctgactc	cttgaactgn	gctcgtctgc	gtgtancgta	480
tnccancacg	gttgtcgccc	cagtacatg	tggaactgaa	gctnccggtg	cangnttact	540
tcaactaca						549

<210> 10372

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10372

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420

09629469.072800

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	540
nnnnnnnnnnnn	nnnnnnnnnnnn	n				561

<210> 10373  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 10373  
 atttaaagac aatagagggg tgtagtatta tgacaaaact agttccctca aaaactgaac 60  
 tgtgttagca ttgattagag tgtctaatac ataggcagac ttggggaaat accagggtt 120  
 cctcaggata tgggtgtgat tctgacggta acctgcagcc aaatgtcaag ggccataggc 180  
 tgaatgcctg gggagctctt ccaggggtaa agaatcctct tgggcctggg cccctccagg 240  
 cagccaagat agggcagagg cagagagatg gccagacct ggccaaatgg gttctatatg 300  
 agccgccttt caataaagac ctgggctgtg atgacccag ccgtgttctg tgccacagcg 360  
 ggccgagtg cacaagtgg gtccctcgggc catgtgagac cccactgagt aactgaaca 420  
 acacgccatc aagcaggttc catctgacac ttgncctgggg ccacaagcc aagcttcagn 480  
 ancatcgnaa cctttgccgg acaaaagccc agggctccct tagttcatct ggatgnttga 540  
 gtccccttcc ttggcttnc ccggcccaca cttn 574

<210> 10374  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<400> 10374  
 gtttatattt ttaatatattt acatcagttt ggctgttaca tggaaaatag gttacaagag 60  
 agacaaaagc agaagcagaa agatcagtta tccagtatta cagtaatcca gaggcctgat 120  
 ggaaggggaag cactgagaaa tggctggatg tggaaacaaa tctgcaaaaca gctgatggac 180  
 tggatgacga ggcatgaagt ggagaggaga ggaacaagg atggctcctg cgtctaaagc 240  
 ctagacagcc gactgagcaa caacaaggct tcagctgaaa tggagacctt ggcagggtgg 300  
 gtgcagggtg ggagctggat cagaagttct gatgtagaca cattaacag gatgtgctat 360  
 tagacatcca agtggagaac ccgagtagac tgggtggatat gtacctctgt agctcaaaag 420  
 ggaaggtgga atgtaataga tgcccatcnt tgggggttca ttgggcccgc aaaaacatgc 480  
 ctgaattggg gtanagacca acatcnttaa ggnccatcctc tggcttccan ggaaggaaat 540  
 attttttccg gatttcttat tccnccatntt gacaa 575

<210> 10375  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 10375  
 gcgggtcacc cgtgctgttt atttacgcag ctgtgttttc taacactaat acaatgcatg 60  
 catgtattgt gtgttacatg gtgaaacaga acagatcctg aagttacaca gatggcgtgt 120  
 gcatgggggt ggtgagcacc cgcattggcct ccgcaaaatg agtgccgctt acaaaacggc 180  
 cccaatgccc ggcagtcagg ctgggccttt cagggcacca gattcctcgt tccaggccaa 240

0969469.072800

gtcagcgacg	gctcggggaa	gtctgctgcg	gctaggagcc	ctcagtgtcg	gtgttgtcgc	300
tgcccgtagt	gttctcccg	tcctctctcc	cctgccggca	tcctttctgc	atcttctga	360
gggcgcgctt	cctgcggnag	ttctcaaaac	tcctcttingan	ggnccnnncg	ttc	413

<210> 10376  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 10376	
cgccactgag	cattttattc
gtcacgcaag	cagaggcagc
ggggcctcac	cgaggcgctg
tgaggcttca	gggccttctt
ccgcaggtgt	ttgaaggccg
gcggatcatg	agcacgtact
cccctcagcc	tgctgcctcc
agnccgcctt	ggaatcttgc
gnnganccaa	gccgggggcg
aagccagcaa	ccacgggggt
gtttccttcc	attcacaccg
gctgctctgg	gggtggctgg
ccaggacatg	ccagccctct
gctgcccagg	aacggcgggg
gctgcccga	gctgctcct
gtgcccctgg	gtgggggtccc
gttgnccagga	accggaangg
gacaattgg	
60	120
180	240
300	360
420	480
519	

<210> 10377  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 10377	
gtttgattct	aacaaaattt
aaataaaaaat	aacagttata
aaatatcaca	ggaaatacag
agtgtttgac	ataggaaagc
acagtctata	cagagctgtg
actcctggcg	ctgggggatct
aaaatgtctt	gggcccttta
caatatcgtg	gactggagaa
cttcaccaga	ttncagagca
aatcatcttc	ttcttttgn
attatgcagt	aattacaaag
taatatagta	ccttatagaa
agttggagag	acaaataactt
aacaatctgt	ataaagtcac
tgtaagtagt	gctcttagta
tgtaagtagt	cgggcaaacc
ttcactctga	gcaggactca
tggtttgctg	ctgttgaact
gntaggatgt	ccattggcca
gtgggggatt	
60	120
180	240
300	360
420	480
540	561

<210> 10378  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<400> 10378	
gccttttgaa	gcccttcttt
acatctgngg	ctttggaggc
atgagctggt	cattccccac
tgccacttc	caatcaagca
canatgacac	tgcttggat
attgggaaat	aaatacagag
gagctctgact	tgctcanaac
ttcactcggt	tagctttggc
tctgcaccct	tcctgatcac
ngactgagtt	catganaagg
60	120
180	240
300	

caattggtaa	tagtcactct	atcttttatg	agacaggatg	agccaatgac	tgagcgctta	360
atggatgact	tctctccaat	ctgngtctct	ggcccaatga	ggccgtcaac	tccaaccagg	420
tgtttgctga	caatctgggc	tgacnaatgg	actggnggtt	ctttggacag	anagcanaca	480
gcaatttggg	cccctgctgg	ttggttncat	gtaaaagncc	catgngctcc	tc	532

<210> 10379

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10379

caggatgtga	caacgttttt	aatgcaaagt	caaccattag	catctttccc	atgtacttat	60
tagatgtgaa	atggcaggac	ttcacggccc	cgtttgcata	ttttcctact	ccgcagacga	120
ataatatttt	cagggaaggc	agcgcantct	gtgccgtcac	aatcgggoga	ctgtgggtga	180
tgagggatga	tgattttcca	ggaggccctg	gggtcanagg	actcctagag	ggagtttcca	240
gcccctcaat	cgcagatgga	tggcctgttg	atgttgtaac	tgggggtggaa	gttgancggg	300
tcacaggagg	tgatgcagtt	atcggggcca	gtcacgatgc	ttttctccag	gtaaacattg	360
agagtattgt	tccggaacat	tccacccgag	gcattctcntg	cacgggtgggg	gctctgctcc	420
cgtaagcctg	gttactgggt	cctgtcactg	aaacagcctt	ctgggtcctt	gtaacccccg	480
aaccacccng	ggttggnatna	accttgcccg	gcanngtccg	cgcttacgcc	gnaagtna	538

<210> 10380

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10380

gaacatgaag	aaaaacgttt	attataaaaac	ttaagaagca	accaatcaac	caaattatga	60
aaaaaaattt	tgctactgac	caaacctcat	aacctgaaaa	gaaccaagaa	aagaaattcc	120
cattatactt	gtacttctaa	aagggtcttag	aggtctaaac	tagacttcgt	tgcaatccag	180
aaagttaaag	gactaaaaaa	ctggagaaat	agagttaaga	attagattta	tcagacagca	240
tagtctatgc	tgagatagca	aaatagacat	ggctttatatt	gctgattgag	aagtgtgtcca	300
gocgtgggct	agcagtcatt	tacatatcag	tgaccaaagt	caaacatacc	cgtactaaca	360
gtgcttttgt	ccatgacata	cccttttgac	agcccaaagc	tgaaacgtca	actctatctg	420
gggttacttg	cttatacaaa	ggatgttact	ctagcaattg	gtgcttgagg	gcaaganccg	480
atgattgnca	ctagtaggga	agaaagcnga	agtggatgca	acttacactg	gatagtccct	540
anccttctgg	gattaatgga	aaaggtgn				568

<210> 10381

<211> 403

<212> DNA

<213> Homo sapiens

<400> 10381

cgctotnttt	gaacttgaac	tccaagtctt	ntaaacaccg	gocgtgctcg	gactgcagggt	60
cttcacgtaa	cttctaattg	gctgcttgat	gatgactntc	caggttccta	agggcccgtt	120
cagcctgggt	tttgtcttga	aaaatcttct	ccaactcagc	tcntgttct	gccaattntt	180
tctgaaactg	gttttgnaaa	tcctccattt	ctgattgatg	ctttgcanac	agttntttgc	240

gtaaattttc	taaacataaa	tctttttcaa	attcccaatc	ttccttcagg	gtctttacta	300
tctgggcgtt	tttctccatt	tctgattgna	acttctcctt	nagctcagct	gagcaccacc	360
tnctccttct	ccngngcgtg	ctgntccctg	aggagctcca	gnt		403

<210> 10382  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 10382	
aaagaatgtg	tccatttatt
ctgcatttag	ctccaaacgt
ttgcacctta	ctatcagggtc
tgctgagact	gtggcagccc
ggggatgctg	tgctcctgac
gaagtacaag	aggggtgcccc
tggagagacc	ccagtgggggt
aagaaactta	agcttgaagt
tctgncaggc	tctttctttt
ccctgcanac	agaccggacc
	gcct
	60
	120
	180
	240
	300
	360
	420
	480
	540
	564

<210> 10383  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<400> 10383	
gtaaaacttt	cccaagacat
cagccttctt	acttgtacct
gatgtctgtc	aagacattcc
ggctagagag	acccaaaata
tactgcccc	agttagcttc
tcttggccac	tgtgaggggt
ggagccaggg	tccagagctg
cataacctgn	cataaaggca
angactggct	tggttcctgg
	nacttntgan
	g
	60
	120
	180
	240
	300
	360
	420
	480
	511

<210> 10384  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

<400> 10384	
gacattttat	attctttgtt
gtttaaatga	atgaccacga
cagaaatggc	tatccacacc
gcataagccc	cagtttccac
ggggctcagca	attccattct
	ctctctggct
	cagttcagaa
	gctgtgatgg
	tctgtttaga
	60
	120
	180
	240
	300

-3943/13211-

gagcactgcc	tgcaggtcaa	aacctggaag	aggctctccc	aggccaggcg	acaacccttc	360
aggtgcagac	ggggaacaaa	aggcttaacc	tgtgataatc	ccaacacctt	ctgaaaaaag	420
agtaacagtc	atccagcaac	gggccatggg	taggggcagg	cgtatacaag	ggacactgcc	480
cctggctcac	atgtcctgtt	canaagggtg	gcacagatat	angctcgctt	ttaaggatct	540
ggtggacctt	ttttaanctg	gcn				563

<210> 10385

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10385

agttttaaaa	acttaaagat	atttattttt	taaaggggaa	cttattttgag	aaacataaaa	60
acacaacaga	atactttata	caccacttaa	tataataaaa	cagacaataa	taacatacat	120
ttttgcaagc	ataaacactc	aggttactaa	taacattttg	gtgggtctaa	cagttatgag	180
cagatgagcc	atatttataa	agaaattggt	cataaaggga	aaggatataa	tgcatatcac	240
tttggttggt	aattgtgtat	accagctttt	ttaactcttg	tcacttgaaa	tactgtgccc	300
aacaacctca	agtcctttga	tgagattgat	ggaaactgtg	ctgggtcacc	actgcatatg	360
cagtcaccca	aagagctgag	atctcaagaa	attttatctt	tcacaaatgc	agatgtacga	420
aaaggatatc	tcatttatcg	aggaagtttc	aacattttat	gtcacactca	atgcttatac	480
acaaagtcag	tattgngata	atgcactttc	atggagtcag	attctgatat	ccagcngcag	540
aanccnnaga	ggtccgtttg					560

<210> 10386

<211> 413

<212> DNA

<213> Homo sapiens

<400> 10386

gacttcttcc	tttattattt	atttattttg	agacggagtt	tcactcttgt	tgcccaggct	60
ggagtgcagt	ggcgcgatct	cggctcacca	caacttccgc	ctcccggctt	caagagattc	120
tcctgccttg	ggccgagcac	ggtggctcac	gcccgtaatc	ccagcacttt	gggaagccga	180
ggcgggtgga	tcacctgacg	tcaggagtac	aagaccagcc	tggccaacgt	ggtgaaaccc	240
gtctctatta	aaaatacaaa	aactagccgg	gcatgggtgg	ggatgcctgn	aatcccagcc	300
actcgagagg	ctgaggcagg	agaattgctt	gaaccgggga	agcggggggt	gccngagacc	360
gagatcgngc	cactgcattc	cagcctgggc	aacangagng	aaactncgnc	ccn	413

<210> 10387

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10387

cttcagaacc	tttttattca	tcattctaacc	aacagaggtg	gttggctcga	actcaaaacta	60
aaatggcctc	aaaaggccca	cctcggttac	acatgacagg	gcaaaaccag	aagtagggac	120
agagtttagc	ctcagttctc	tcagagagaag	accaagcatg	tatttacaca	caggtgcctc	180
attaagaact	gattggcaat	gttccaccag	cacagaccca	gagtgtgcag	aaatccgttg	240
gggctctgta	tatgtgtcat	tcagacaatc	cgccgattcc	tcagccataa	acaagctctt	300

09629469.072300

gcttttttggg	aggagggtga	tcagcatgtt	atcttgaatg	atggcaccat	ttgtttactc	360
tggaactttg	aaggggaggt	gacaacttat	tttctccct	gaatctgaga	tcagtggtcc	420
tgtcagagta	tctaaaaatg	gttcctggaa	gacagggtgt	ggtgggttgc	ctaacagaga	480
gttacagggt	aatgggggtg	gctctttcag	tacttaatcc	gntgggtttc	aaaaaccctt	540
gnacctgggg	nccctggacc					560

<210> 10388  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 10388						
gaaggatat	gtaggctttt	attagggcaa	gcatttccat	atccatacag	atttcattaa	60
aacaaatgga	tgctcaagt	atctttgtta	aacaggatcc	gaaatgaagt	aaatagtagt	120
taaaattaat	tataaataaa	gacatttcag	cacataaacc	aacaagtctt	ttctagattt	180
ttaataccag	gacctaacag	catcattttc	caagtaagtg	acaaataact	aatgtgaaaa	240
ccatatitaa	tatagatgat	gtcacaaatg	acaatgttgt	tttccatagt	aaagaaatac	300
gttaattttc	ttaaatccta	tttggtatta	caaaataaat	tttactggtc	aaaaaacaac	360
caaaaaaaac	caggaaaaca	gacatgatgg	aaaggttgat	aaaatatatt	aataacttaa	420
aaatgctgtc	acaagcatgg	aatgctacc	attatcattt	gaatacnaca	aaatgctata	480
aagcaaagag	ttggcagaat	acagtagaag	agctattctg	aaacaaatga	agagtcagaa	540
cnttaaacng	gggccaggat	tttt				564

<210> 10389  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<400> 10389						
gggctagaac	cattttaata	taattataca	tatctgccaa	atccaggaag	aaaaggttta	60
tgcatatata	acttttccat	ttaacatgtg	caagcataaa	cgacaatgat	ctcagtttaa	120
taattcatca	gggtcagagc	aattgaccaa	tgtctgttta	ctgctaggct	taccaacagt	180
aaattacaga	tgaattagt	tccttttgct	tctcttctct	gactctcttt	gtccagagac	240
attttgtcgt	aaagtttcag	tgcatctcac	ctccagccaa	aggtaatctt	tttagatcag	300
tactcagttg	ctctgaattt	tgcttataat	tataacctat	ttaatcacag	aagaaccctt	360
gcanagggtg	agttcaaggt	tgcatacaat	aacngganna	tcncagnntt	gnag	414

<210> 10390  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 10390						
ggttttagttc	caacaaaaact	ttattaataa	aacaagcagg	tggtctggatt	taacccaagg	60
gctgtaatct	gctgacccat	gatgtagaag	actgagtgcc	ttacagacca	atcctgtctac	120
aaataacaga	tataaattct	aggaagaaaa	cctatttgag	gctttggaga	tttaacaaaa	180
atagattttg	aagaggagtc	aacacctgga	gcaagtgatt	tggtttttgc	agttttttccc	240
tgtaggcagc	tgcaatgggtg	gtggtgttgg	cacaaggact	ggggggagggc	aggcagcaaa	300

aactcttgcc	atctttctga	ctggaggaaa	ctgggggaaa	gagcctggaa	aaaccatagg	360
tgctagagaa	tgatgcagat	gcccagaaa	gaagacagcc	ngaagangac	aaccccagat	420
tctatgttta	acctcagccc	aagtcctntgg	ctgctcctga	accatgtatg	ttggggcaat	480
ctgaaancgc	tttaaaactca	ggttaaagaa	cctgaattgn	gtctatgccc	tgctctacag	540
gcatggcan						549

<210> 10391  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 10391	
gggtgtgggg	cttgtcttca
actatttaca	aagcctcttc
catittgtaca	tgaatattgt
ccacaaataa	aaaggaagtt
gttcctgaac	tcccaggaag
cctgaagtgg	agaccttgcc
agagaaggca	gcatgggtccc
ttgggcaagc	ttncangatg
tggcgtggct	ggctctcttc
ctcacgcct	

<210> 10392  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 10392	
accattctag	atttttatta
cttcatgaat	ttatgtgtca
tttttagtaca	tgggctactg
cacgtaaaaa	gccaccaggt
atttataaat	tctaatttta
agttttcaga	aaagatgact
ggggaggcct	ataaaaaggng
gaatgaaggt	gtggggctta
agaagcccc	tatgcgaact
aancaancg	

<210> 10393  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<400> 10393	
cgcgactgag	acgaaacgac
acttaaaagga	actacagaaa
	gggacagaaa
	ctgctttctt
	tttaaacat
	gcgctggaag

008220-6946290



gttactagtg	ataggaggct	tagtgaagcg	cgtgatgtga	acggccacgc	tgcaaggctg	180
gagagaagag	aggagggagt	gaagttgcac	cctgatcgcg	aatcctcggc	cttttatcag	240
gggcgccgcc	actcggggtc	cgaccattcg	cctccaacga	ggggacagcg	aatctgctgt	300
cgtgtgcagt	ccacagcaac	cacaggtggg	gcaacaggag	gagcgcttgg	gcacgaccac	360
gtgaccacgc	acgagccacc	gcccgcacca	aaatgaaatc	aaatccta	ctcccaatcc	420
cggnatgccg	gnacttccan	ccttnncang	na			452

<210> 10394

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10394

gcataatata	ataacattta	ttaacttagg	ctgtacaata	tattgattta	gtcaaataaa	60
aaataaccgt	cacaaaaatt	gaagtaaaat	ctgtaagatg	ccattcagac	tgaattttat	120
attctgaata	agacaaggga	ctgccattca	cttaaagcaa	aatggctcca	attccgttta	180
tctatctatc	tatctatcta	tctatctatc	tatctatcta	tccatctatc	tatctatcta	240
tctataagtc	tcgctctgtc	accagggctg	gagtatctat	ctattttatt	atgagataag	300
tctcgctctg	tcacccaggc	tggagtgcgg	tgggtgcaatc	tcggctcaact	gcaacctctg	360
cctccacacgt	tcaagtgatg	ctcctgtctc	agcctactga	ggagctggga	ttacaggcat	420
gcaccatcac	acctggctaa	ttttggattt	ttagtagaga	tgggggttcac	catgttggcc	480
agctggctctc	gagcttctga	cctcangggg	atccacccac	cttggcctnc	caaagggctg	540
ggatacac						548

<210> 10395

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10395

gagctgcaga	gcactgagct	ttattttacaa	acttccacag	aatccctcac	cctccacccc	60
agggtcctcc	ctctctggaa	ctcaggcagc	agacaagctt	gggtccaccc	acctgcccac	120
cctaggacag	ctgggcctga	gctgggcggg	caggggattc	catctcctgg	gtgcgcctgc	180
cagaggggag	aggctggagg	cggcgggaat	gctgttctcc	cccaggagtc	agtcctcagg	240
gcttctgccg	tgggacgtgg	ggccgaggga	cctggggcac	tgaccaggtc	ggggctcggg	300
gcagcatctg	cattggtgag	gccgggtgaa	aagggtctgt	ggtgccggac	agcttctggt	360
gctgggcctn	acggagacag	aggaccagan	gtncaggttc	ctgggggctg	agcttttctc	420
agactttgga	ggaaaaatgt	ccaacccaac	angcaattgc	ccggggcang	ggccagtgtg	480
tcanaagcgt	naaactcttt	cgcggngnga	tgtggtaccg	gtgccggggg	ctcagggaatc	540
gaaggcggga	n					551

<210> 10396

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10396

aagatatgac	acatttatca	tccataatca	aacaattcaa	atccctgact	gaaattggct	60
------------	------------	------------	------------	------------	------------	----

tgaaaaatga	tacaaactct	atggctgctt	taaaggactg	taagataaca	tgtttttaaa	120
gcctatataa	accactgatg	cactttttata	tacttttatat	tcaaaaactaa	tctatggagc	180
tcattccatt	ccattttaaaa	tagtaagtc	tcacataattt	gtggttactt	ttacagtgtt	240
tttaaaaaag	gagtactgct	aataatttta	gacatccctaa	agacagaata	ggtgtgaagg	300
cttcttttta	tatttgggggt	gttttaggta	atttttaaga	acttaaaatt	attatttggt	360
cctccttaat	atgaaactct	tccaaaatac	cttctgacca	gtaagtaa	ggtccttang	420
cactgtgagg	tggattaatg	atgaacatga	accaggctg	agaaagtgtc	caattggatt	480
taactactgg	caaacagtta	caagctctgc	ttatccctga	cacnggaaag	nctttacccc	540
ctcc						544

<210> 10397

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10397

gtggttataa	atatatattt	aatggaaaaa	atatacatat	attgctgggtg	tgtgctcaaa	60
tacattttgc	tgatggagtg	tgtgaccagg	aatgacccct	tggccacag	agctctgggtg	120
tatgcatgga	ggtgggggggt	gggctatgaa	tcattcctgt	gttctcaggc	ccaggatcat	180
gaagtacga	ggttgaatgt	agcagagtct	gtctcttctt	tcaaggctca	taacaatgcc	240
gcttcctcca	ggaagcctcc	cttgctttcc	cagagacagc	tgtggcttcc	tgtcttgggc	300
ttcccaggcc	aagttcccag	ggtccctctc	tgtgctccag	ctgtgaccac	agaggagtct	360
atgcctgaaa	ataaaggccc	ttctgggatt	ctagccatgt	ctaggcacag	aggaggggaa	420
ggggaagttt	tgcagaatga	ataaatgaaa	aagctgggtca	tcctttgaat	taaagtgtgga	480
atgaaaaagt	ctggttggtc	aaggatgggg	atcggaactt	tggctgtgntt	atnttggc	538

<210> 10398

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10398

gcagtaatat	atgggctttt	aattaatata	tcaacttata	ggatctgcta	tcattccaag	60
aggtgacaaa	tatgaacaat	acttcaagat	gcccttttta	tgttacatta	cagttgctgt	120
aactggtttg	tattggtggg	aaaatcccag	gtactgcttt	tactactgtg	atttgttgcc	180
agcatttata	acttgggagt	aaggctaaat	ttcagtttca	ttgctgaaaa	taaagatgta	240
acattttctt	ccatcaagtt	catggttacc	cctggcttct	atccaggtta	agaatccctg	300
cctttaggga	aaattctgga	cataatcagg	acactcctga	agaggtttaa	agaagaggta	360
agacctcact	caagaattcc	cactgcagta	cagacagact	ttcatggntt	ctttccttgg	420
tgnottcang	gttgttgcaa	atccctcctc	aaggcttgggt	tggccaggcc	tcgntgatga	480
aatgatattt	tgnaaaccag	gtcatnaaca	agttccgggt	tnctggcatt	gaccanttct	540
gaggtg						546

<210> 10399

<211> 549

<212> DNA

<213> Homo sapiens



gtgggggctg	cacttgacag	cgcgcgaggg	aaacactgat	ggtgatgtgg	taggcagttc	300
gggttttcct	tgaagctctt	actatgcttg	cacttgaact	ccagcaccat	cctgggtgtac	360
gtgttgaagg	tggtgacagc	ccgacgccat	gcagcaggtg	aaggagaacc	aaggccatgt	420
agaangccca	gcccataatt	ncaaacatgn	ggctccaagt	cttttggacc	caagttgaca	480
gtcgtttgga	aaaacttggg	aatncttcat	gcggccaanc	atttcccang	anaacctgcc	540
cggncccaag	gaaaccgcn	g				561

<210> 10403  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 10403						
agattctatt	gctttattga	ttattacttt	cattaaacaa	tgttagccat	ataggatgat	60
taaaaaaaca	actaatatcc	ttggaatatg	aacatcctat	taactgatac	aaactgactc	120
cacctttctt	atagcagtga	attttcaggt	cacatacaat	cagtaattta	tactccaaat	180
acaacaatca	cgtttgtatt	aatcatccag	tacaattcac	aggttcctat	tacacaggtg	240
gatgtactta	gagagtitta	gcacaaaagc	tgatacaaat	atgaaagtgt	gctcagtcga	300
atggtttagtg	aggtgctaca	ggtgagtgtc	ggcgtatgggt	atcctcctga	gctccacgat	360
ctggggagtca	gtcaaggtgc	ccccctcctg	gctgccttga	ccagattcat	tatcactgac	420
actgagacca	gcaccagttt	ttaatgcaaa	tattaaatca	tcaacttctg	ggcttctcat	480
cggntatcaa	gtgaccctgg	gcatatcctc	caaagacggg	accgggggttc	cnttttgggg	540
n						541

<210> 10404  
 <211> 522  
 <212> DNA  
 <213> Homo sapiens

<400> 10404						
canggcaaaa	aaagatattt	tattttaaaa	acatgtttgt	gggttttttt	ccttttttgca	60
ttcagtagat	tgatcattcag	acatcacaa	actatataca	gatncacaac	atttttttaa	120
aaaaagccta	ttcctgatga	acatttcaaa	agaacactgt	tttgtaatgc	accagtggga	180
agggaagagg	caaggggccc	ccacagcacc	aaggnggcct	ttgaggaggg	aactgttagg	240
cagcatctac	atttagctaa	ttgaggggcca	natcttcttg	cctcttgaac	tagatcctct	300
agctttcctc	tggaatcag	taaaggtgaa	agtgtgagga	gtcattcctg	ggctagtgcc	360
ctgatggaaa	ggtgactgga	cagggatttt	gttgagggac	ccactctcca	tccccttgga	420
agaaaatgtt	tatccttaga	aaaaagttct	gnttctggac	ctggactaat	ncccaacctt	480
accccctaga	gagaganaaa	nganaagang	ganccctttt	ta		522

<210> 10405  
 <211> 453  
 <212> DNA  
 <213> Homo sapiens

<400> 10405						
gaggcacctg	tgggacttta	ttagataaac	acacaccagc	tccagccaca	ggcttggacc	60
ggccagctga	cagggcggcc	tcagacaccc	ctgccgggtt	ccgtggcccc	tggccatggc	120

tggaagcagg	gttcaggccg	ccccacttct	gtctagtcct	ggcaggcccc	ccctcacctg	180
gctctgctgt	gggagccgag	aacaaagacc	ccgcctgccc	cactccttct	gccccagggg	240
ctcagccagc	accacccctn	acagtggcct	gggcagggggc	tgggggtacaa	agcctnacc	300
tccccctgtg	agccagacgg	aaaatgcac	tccaagagt	gtctcgaggg	gcaggaagga	360
ggcctgcccc	tccctagcca	gtgcctacaa	cagggggtgc	cctgggggggc	anaacggccg	420
accgncacca	canganatcc	tggggnanan	aag			453

<210> 10406

<211> 523

<212> DNA

<213> Homo sapiens

<400> 10406

agcattcctt	tatttttagaa	gttcacacct	ataattttat	aacaatcgtg	aaaatgttac	60
tcagaactag	atgttttgat	gacacatagc	agaaatctgt	ggttcaagat	ggtcattgca	120
aacttaacca	atctcagcat	tctattctgc	cttttgtttt	gattgcacag	aatcaatata	180
attctgattc	atatggaaaa	taacttaata	tcttaacctc	cgctcaggat	cttcatcata	240
aatgtaggtc	agtacatacc	taaaaattgt	caatgatcca	acatggtcac	atgtgacatg	300
ctacacttgc	acctagtacc	aaacaagctg	atacttcaat	gagatctggt	tggcatatac	360
acccaagcct	tgtctgtccc	ctcagagcac	tgcacacaga	tagtgaaaga	acttgtgtca	420
ataagaaatt	cacagggatg	aagctggggc	cagtgtctna	cgctgnaat	ccagcacttt	480
cagaaggccg	aancaggngg	atcacttgan	ggncaggagn	ttc		523

<210> 10407

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10407

aaaacaaaaa	aacttcattt	atatacagtc	agatataaag	acatctcttt	gactcctgtg	60
catatatattc	ctcaactcaa	gattagggca	taaaagtcag	gctgctatgc	cagacatgct	120
ctgccctatg	gcagggccaa	ggagaggatt	gtcacttgaa	agtgggaaca	cttaaattgga	180
tgacagacaa	cactggaccc	acagaccaag	agcattcttc	taagccctgg	agtagctcga	240
ggaatggaag	agggaaattg	gaagcagggt	cccttttcga	tcttcatgtg	aagagaccca	300
gcctcttcaa	gggtatccaa	gataaacttc	cgttccccaa	gcccaccaat	ccctgtccag	360
ttccttttgt	tcctgccctc	ccaaatagga	cattctcctt	tgtgcccagc	ccccctttgc	420
acagatcctt	caaggggagt	cccatgatcc	acaagggcag	agacctttat	agcanaaggc	480
anggcaggta	cacactatct	ctncttatgc	atgggtgggc	actgctgang	gncttggttc	540
angaaatccc	aaa					553

<210> 10408

<211> 286

<212> DNA

<213> Homo sapiens

<400> 10408

acgtatttgg	cattagaaac	cttttattga	gacaaggtaa	acagtgggct	gaaaatatta	60
caggctgaag	gaaggctgag	gaaaccagta	tgaaggcagc	tcaaattgatg	aactaaatat	120

attccaaagg	tactatztat	acttaaggca	gttttaaaag	tgaggcttta	accaaaaagc	180
ctttacatgg	cattcaaaac	aaaaacaaaa	acaaaaaaaa	cacggggggg	ggggggcact	240
taaatntntt	ggattgnctn	aaagagctna	attatgnacc	cnaaat		286

<210> 10409

<211> 508

<212> DNA

<213> Homo sapiens

<400> 10409

cctccggtag	agatggggtc	tccctatgtt	gtccagactg	gtttcaaact	cctgagctca	60
atgatcttcc	tgcctcggcc	tcccaaagtg	ctgggatttc	aggtgtgagc	caccatcccc	120
ggaccttttc	ttttcaaaac	atacataaaa	atggaaatga	ataggaccag	ccagtggctg	180
tgatgcagcc	aaaacgccct	gtctggaaaag	catgcgtcta	ggtaatcttc	ctccgctttg	240
ccaggcggtc	tgaggtctgg	gctggaggca	gcgggaggga	cagggtgccc	agtttgtgat	300
cttcttcact	gccggcggcc	acagacaccc	ttcttttgga	gatcttcage	ctcatggctt	360
tggtatcttc	catcatcett	ttctcactga	gcttcaagtc	cctctgtaac	actgtcaggt	420
caatttgga	gtcatgtatg	tgcaaggcaa	gtntgatcac	atatgcngna	atcttcgcct	480
tnatagaatc	cnaaaattaa	ntcccnaa				508

<210> 10410

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10410

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540

<210> 10411

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10411

cactattttg	ggtttttatt	tngttgatgt	tggttaaato	ttatctnttt	ttttatncac	60
aatacttnat	gtncctatga	aataaaacag	gtagggaata	tgtccagngc	aaacagagga	120
ctcacacctg	tgcntanaca	gcaccatcca	ctgattgtcg	ctgcagtcca	cggcgttact	180
aagcctgcgc	caccacagtg	ctgccccagg	aggcgctacc	aggctnttcg	ggccacaggc	240
ctttcctcca	ctgcatgtgg	cggcagggcg	ggtaggctgc	agggtcccat	gattgtgggg	300
cancctcaag	ggcncatggg	gcaaaggccc	tcgaaggctc	cctcctnagt	aggggatgtc	360

attctgatag	tactggatca	tgttgtangt	cggntcctg	ttgctgagga	agcagctntg	420
gatgaccttc	atgatgaaat	ttgcaacctn	gggctcagtc	atgttggggc	taaacctgng	480
ctttaaanaa	cttgattgcn	tggcccnnaa	aaccgggcnt			520

<210> 10412  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

<400> 10412						
aaaataaacc	attcagtaga	ttttattaac	caaacaaagc	ctcctgagat	tggttctgtc	60
acctcggagc	cacaagctgg	gaaaagataa	ccacacccac	ccagccagct	tccccaccc	120
ccagctgttt	ccaggcctgg	gactggagcc	ctgctgagac	cttgtccac	atctaggacc	180
ctctagggcc	tttgggcaca	gacaagtagc	aagggcctct	gccaggaaca	cctagaggat	240
gtccagctgg	gtgcttctcc	actctcagtc	tgtttgctca	aatgtggaat	tctaattcct	300
ggccagtttg	catcccgggg	atccctgaag	agatcccagg	aggggagtg	tttgtgcact	360
gaaggcgtgg	aacagggcac	tggaggagga	agacccagag	ccctggctct	naagacaggc	420
ctggcttcaa	gcacctggca	tcctttccaa	ggagaaggaa	gcctgatgtc	tggattccca	480
ttttcttctg	aatgccagga	acaccanaat	gccctgtgcc	ccttggaaga	a	531

<210> 10413  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<400> 10413						
acccaaggta	aatttttact	ttaataacca	taaaactgat	ttttcacctt	catgaagtca	60
ttgtcttaca	gaagactcgg	attcaaatac	tgactctttc	cctcagtagc	cagaccactt	120
actctgtacc	tgtaaaagga	ggtatgcggt	gcttctaaag	catgcaactg	atccattcat	180
tcacgtggtc	cactgggtga	tgacgggtctg	tcctccctt	aagcaaaaac	tggctctaag	240
ggacaggtct	tttcttcacg	caaaagggtga	gcaatgcccc	cagcctttca	ttctagaaaag	300
tgatgaggcg	atgattttgt	atccacaaaa	tgcattatca	aagctcacca	ctttagtgtt	360
catttactaa	agtttagcaga	gatctagaat	ttgaaaaaaa	acagtttanc	aatngaaat	420
aactccnctt	agcaaattca	attaangnaa	ctngntca			458

<210> 10414  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

<400> 10414						
ctgttaagat	actttatfff	ataatcaaaa	tacgcaatac	aaacaaatgg	acataacaaa	60
gattcatata	aataactggt	tataaacttt	atgaggaaaa	ataccggtca	gcattggtggc	120
tgacttgtac	tgggtactct	gaactttcaa	ggaggccaga	gcaggaaagg	gaaaggaata	180
acccccacca	cccccaacac	aagagaggca	caaattagag	ggctggggcac	aggctgtagc	240
cctgggtgag	ggggtaagca	gcttgacagt	tgctctgtgg	tctctgggat	ataattctgc	300
ccaaggctag	aaccacagag	aagagtttgc	actcttaagt	ccaggaaagg	gactacctgg	360
aaggcctgag	aacaaaggag	aaagtttagc	acactaaaca	catggccagg	accctaggga	420

cacaaggcaa ctggagagtg ggatctcttg gtaaattggca tggtaggcag attanagtcc 480  
tggctataat ccctanggcc ccaatcctag tagttacctg ctaccaacca ntn 533

<210> 10415  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 10415  
gacaggagtt gaagttttatt cttggaaaaa acaaagtccc atcctcccc cattgtctaa 60  
gaaggttctt ctaggaggcc cgcgccctcc aaatggtcac ttctcttttc tgacccagc 120  
ttccaccaat gccgttaaga tgccgccact tgggtgaggg gctcctccag gtactgcacc 180  
aaagcctggg ccttggcctt gagcattcca aagcccacgg tctccttggc atacatacac 240  
agcagaaggt tggccactcg ggtgatggct acacggccct ccatgcagtc catgaggatg 300  
aatttgagat tgtcttcatt aaacgcttgg ttcccggttc ggtcgtaggc ggcccagatg 360  
ttactggcta tggcagcggg gaccggggcg tcagtgtccc cgtaaccaga gtaggccagc 420  
agtgatccct cgttattcag cancagggtg ctctggacgc cttcagtgtt ggcttggctt 480  
aacacctggg tcaaanctt tggggccaaa tgcctacggg totnaacctn ggntttttgc 540  
cccaa 545

<210> 10416  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 10416  
gctggcaact cagtctttat tgatggtttc atttttgggg tcaccagtgc taagagggtg 60  
aagggtgggg ggcaccttta tgtgtgtcaa ggaccccaga gcacccccct cagcagagaa 120  
taaattccaat ttanaactta caagggtgtg gggatgggaa gaggaaggga cacagtatgt 180  
acagatgctt aaggggatgc tggagggcct tcagcaacag ggaatggagg tgccaaagag 240  
gaagtggggc agagtcagcc actgatctgg accccctcag cctcggccag agggtagatc 300  
tcaatggctt ccaccagggg tagcgcctcc acagcagtc ccatgacggc caggccaacg 360  
gcagcctccg cctttgccan ctgntgccnn ananngcctg a 401

<210> 10417  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10417  
gtcaggaaaa tatctgatct gattcttccc agcttgcttc ccctacaact taataagccc 60  
ttactaacc cctgtatgta ttaactgcaa ttgcctagcc cggcatttac actotcaaaa 120  
gatttaacgc aattacaatc aaaaaacact tgtcatatat aacacttttt cacatggaaa 180  
taaattgggt gttaaggtt tacaattcct ttgaataaaa tticagttat tagttacaaa 240  
atgctaagac agattgaggt ctcaaagaaa gaacttgaga aaattatgtt ttaaaggact 300  
tcacaaatat gaagcataat tgttagaatc ctgatacaaa gtaacttttc ctaggtttta 360  
ggttcaagtc tgaattcttg aattgtccag catcaacgag acctcattta tattcttttt 420  
attttatcat tactttcaga ttcagggtct ctgcctattt tgcccaagct ggactccttg 480



gctcaatggg ancctcctgc ttaacctccg aanggttggga ttnnaggctt gcccatggcc 540  
cggggttaca aatt 554

<210> 10418  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 10418  
atacttttgt ttatctacaa cccaataaca gacatgaggg atggccctgt ctctctggga 60  
cagagcctca cagatgatgt ccatgttttg tgtgaatgaa actcaaacac tcttcagttt 120  
ttagagtcac tttctggtat cgagcgacca caccgaggag cacaccctgc ttccaaggct 180  
gctgccttct gcacacagtg ggggatcccc acccaccctg gctccctca agggctgcgt 240  
gcacagtgcc cgctttccag ttacctgacc caccctgagt ccctattcca ttttgctcgg 300  
ggctgacctc agacatgccc tgtggctcag ctctgccact actcagaaca ccagcctcag 360  
cttccctatg tccccagat tcagcagccc aacanggatt gggggaaatg ctccacatca 420  
ngtgggtngg tggncctgggt ccctgnaaac tggactgggt ttttaagcca tttcaggaac 480  
acaactaaca acaatggcc cttaanccca aggggatgcc aatttttccc tgggnntttg 540  
gcc 543

<210> 10419  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10419  
aaggaaatcaa aaacttttat tcagaataag cgtttagcaaa atgaaggtag gtgcctcata 60  
aatgcagggc cccagagtag tcagaaaggg attagaaaat aattacaaaa atattttgcc 120  
acatatatac atgaaactac aatcactggc tgtaaaatat agtcaaagtg aatcaagctg 180  
aaaagaaaag gtggaaatct ccaggttatc tgcccagggtg gcaggaaatc gacagccccg 240  
agaacgcaag tgctgctgtg ccgccaggcc cagggtctatg atccaaagtg acgggcagac 300  
taccggcctg caccacccca ctcaggctgc acacaagaca gccagcttag gatctccgtg 360  
ggctgctacc tatgtcacag agggctgatt aagggtctgc agtggtccca aatagggcct 420  
ccaatgagan gaggtgaaac tgcattacaa gaaattcact ggggctggac ttgactcttc 480  
acttggcgag tctnatgang cactngnct tcaatggctt ctggcantta atgcttccgg 540  
gcattanggg cctttt 556

<210> 10420  
<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 10420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnn		525

<210> 10421  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 10421						
aaccattact	gggactttat	tataatagtt	aacaatatatt	taggggnata	caatcatatc	60
acaattactc	aagctatata	caaacaggna	tttatataag	tctacattta	aaaaagaaaa	120
agcaattaat	gacctcccca	aaatcacatt	atcatcaaca	agattttttt	ctaaaagtta	180
cggccaatcc	aataacaaaa	aaattcacag	ntattctgca	nacattttta	agatgcagga	240
attgnattgc	ncattatata	attataaacc	ataacaagca	gttatatatt	ttaatctagt	300
ttttcacaaa	atttacatta	tcattgcaata	cttcactgnc	acagaatgat	ggaactagaa	360
caggttaact	tacaaacttt	taattatagc	cccaaattta	gaattatttt	aaaggtatat	420
ttcaaattat	tatnctaaaa	aaacnctcca	ggggaataaa	acnggnccca	tcataatttg	480
gtcccaggac	aaaatacctt	ttttaggggg	ctctttggct	tggccttctt	ttcct	535

<210> 10422  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 10422						
atgtacttgg	cctctctcct	gacgcctcac	accattaagc	atggagaaaa	gggaaaaagg	60
gcaaagggaag	tcaaaaaaac	tgaactagga	ttcgggcaac	agcctcaggc	tgcccaacag	120
aacaggcttt	tagggaactg	gacacacaga	ccagctgtga	ccctgacttt	cacattgatg	180
ggtgaatggc	aagtaggagg	taatgaaatc	tggaaatgac	aggggagaga	aggcaaagct	240
gcctggagtg	tcagtcctcg	aggcatttgc	ccctctcccc	cggggggccag	ccagggactt	300
cccagttcag	gaaggccaca	acacttgttg	cacattaatt	ccgagcttgg	cccggcttct	360
ttcctgtgcc	ctctgcctct	gtgggcaggg	gaaggaggaa	gggtgtggtc	ccttaggata	420
tccaagtgc	cttccagctt	ccaggagcan	ggctgagatc	ccagagtcag	tgccatgaac	480
tgtgcatttc	actgagggaa	aagggangtg	tggnttttgg	actttgcatt	tcacacanaa	540
cccccttg						548

<210> 10423  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 10423						
ccccccggta	taaaagttaa	cacgatgagt	ttcatatttc	atcacagtta	tatggtotag	60
tgcatttcag	agtatttgga	cattatcaaa	gctgtccttt	cccaatgaaa	acattttaaga	120
aaacgttaag	cacttctcaa	gtaacatgat	gtggaattac	actttttgct	cttacctctt	180
ttaggtacac	acgtattatt	caacaaagca	aaactatatt	acagtgtctg	ttacacaaaa	240

gttctctatt	agatagaaga	aactacagta	tcctgaagct	atttccccaa	gagctagttt	300
agtagataga	cctttggggc	catcttattt	ttccttcttt	tttttttttc	agtaaggtaa	360
ccttccatta	tgcacatact	ataccatcat	cattcattgg	gtggagatta	gctgggaagt	420
agctgnatat	ttttagggga	gacactgatg	gcatggactc	tggatcgtgc	tgtgcttatg	480
ggtaaacata	tctaattggga	aattcgaatt	acatncanag	cttccggatc	aaagnccgac	540
attttcaa						548

<210> 10424

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10424

acacaataaa	tatTTTTtatt	tTTaaacact	gaattgtaca	tctttcatat	aaaacatgag	60
attctagcct	gTTTTaaaaa	ataagtatac	ttgctagtac	tatcttcact	ctTTTTTTTT	120
ttcagaagcc	aatgtTctct	aaatctgcag	cttcattcca	cagctttaca	gaatcataat	180
ctcttgaata	tatTTccaat	gttattaaaa	aataaaaaaat	catacaagat	atatttagca	240
cattaaaact	taagaggTTa	cagtataact	gtccagacct	ccaggtagca	ctgaataactt	300
ttccagtaca	aagaggccaa	tatgttagaa	taattaattc	tctgtattta	ctTTtattaa	360
aaagaggTTt	ttggtagtaa	gaacaaataa	tctctcattt	gttgccctgaa	atcctaaaaat	420
aggatcattg	gtTtctaggc	ttgctacttg	ctgcttagca	acctgtccta	cttgccctggc	480
cttccttctg	tggaaagtac	agtggacatg	ggagcaggct	gacgatngat	gaataactcga	540
cgaagggn						548

<210> 10425

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10425

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnn					557

<210> 10426

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10426

acaataaaca	aaaagatttg	tattagaaca	tatacactca	gggaagaaag	aggtatcatc	60
------------	------------	------------	------------	------------	------------	----

atcaaattgtg	gaattgttgaa	gaaatagtta	aaatatataa	agactccaag	cacagctggg	120
actggctcag	gctggggctc	acagaggcca	ctgcacatca	gctccaggct	gcaggagcca	180
ccacctggcc	atactggctt	cctccctgac	gcagcacagc	tgtgcctggg	acacagagtc	240
gctctcaagt	actggagcag	ctagcaagct	cactccccac	tctcctcact	tatctctgtg	300
acaatgtcta	tcaggctctg	gagcccgaag	atatagccag	catcctggcc	ctcatgcacc	360
acggtgtcct	cgccatacag	cctgcagggt	gtgtgtgcaa	agtcgatcat	gcgcacatct	420
acagagctgg	cgcccgatgg	gtttgttagg	ataggcacca	gcagactcat	cagctggatt	480
cctctgacan	gnccttccaa	tccttaacat	tctgagtcca	ggaaccactt	tngggccggt	540
ccttggcatt	atnaaangac	cn				562

<210> 10427

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10427

ggagacaagg	tctcaccatg	tcacccagtt	tggagcgcag	tggtacaatc	tcagctcact	60
gcaacctccg	cctccgaggc	tcaagcgatc	ctcccacctc	agtctcctga	gtagctggga	120
ccacaggtgt	gtgccaccat	gcctggctaa	tttttgtatt	cttgggagag	acagggtttt	180
gccatgttgt	ccaggctggt	cttgaactcc	tgagctcaag	cgatctgcct	gcctcagccc	240
cccaaagtgc	tgggattaca	ggtgcgagcc	attgcacctg	gcctaacaac	ttgtatatct	300
aagaatagcc	tgaaaataat	gtcagcatgg	gctgtacttc	cccaatttta	ggaaaggaaa	360
gaggaactaa	aattctatct	cagatatgag	cctctgaatt	tcaaaaaaaaa	attgggagaa	420
aatagacaac	aacaagacaa	aaaataatac	actttgacct	ttgggcttgg	tgtagctttc	480
ctggaaataa	ggngccttcc	tctttgnaat	cagatgacaa	tgggaanagc	tgactgggggt	540
tnggaactgg	ttan					554

<210> 10428

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10428

cctgtgcctc	aagacacctg	tttattgggg	acacgactct	gcaataggga	tgacaggaat	60
cgtacaaaaa	atagcgacgt	ctacagggcc	cctgatgggg	ctagaagggt	acagtgcctc	120
ccaccctcac	cccttgatca	aaaataaaact	ctcagcccta	tggaccagca	aagactggca	180
gagtggctcc	tcaacaggga	cacaaacctt	ctctgccagc	ccagggaccc	cgcttctttga	240
ccctcacctc	tgccacttct	aaggcactgt	gactcccttg	ggctgggttg	gtaccgccag	300
cccaccctcc	tacgcccgcc	gcgccttcca	cctctggtcc	gcctggggct	gggatattgg	360
tcccacgctg	ccccctgctg	gcttctctac	ccaactacct	ctagcgctcc	cccgcctcgg	420
cggggtaaaag	ctcactaagc	taatcgcccc	tganggccca	ctaccgttnt	ggccccccag	480
cctggctttt	ccgggtctgg	acaagcccgg	aagccttctt	cccttotgca	aagactggaa	540
ggggctttct	gaaggg					556

<210> 10429

<211> 562

<212> DNA

<213> Homo sapiens

000270.094290

<400> 10429

ggctttgaat	aatTTTTtact	cattatatca	tttatcatag	cataacagcg	tacattccaa	60
aaaggaaggc	ccaacataaa	ctgagaaatt	gaatagatac	atccataatc	cctttctatt	120
ctaattccata	cacaaatatt	ttatcataat	ggTTTTtagaa	gtgaatatta	tttctatatt	180
cTTTTccac	actTTTtact	atataatcata	gacactttcc	taaaattcat	aaaatcttca	240
catgtaacaa	cagcaagtgc	tgtaaggaac	agattacaag	ctatctaatt	ggaagatcat	300
gtagtaaaat	gatgcactaa	aatatggttt	tccagcctaa	gttctaaaca	ctacagcaac	360
cTTTaaattt	tctcaataag	cccactagt	gtagcattcc	atttactctt	tatggaaaaa	420
gangtctaac	actggcagtt	ggctTTTggc	atatgaattt	ctctgaatca	aggctgaagt	480
gctTTTtgca	nggaaaaggg	cccgatttaa	taatttcata	gggaaatggg	cttaagaatc	540
aggnttacca	tgggtntggg	at				562

<210> 10430

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10430

cactttccca	cTTTTtatta	ttcaacacat	ggaaggggggt	ggagacacaa	ggatagggca	60
atggtgagtt	tcaataaata	agagaaacag	gatggacagg	cagtgggccc	atgcctgcac	120
ggccccacat	aaataaccag	gttgctgagc	cagagtggaa	gtcagggctg	ggcctggcag	180
ccgcctgcac	tgcccagaag	cactggcacc	acagggacac	agaaaccact	gaggcccaag	240
gtgtgctcca	gccccaccaa	gtcttctccc	taaagctcct	gagatotttg	ggctggctgg	300
gcaggctagg	gctctgtatc	acagtcctgc	tgggatcaag	totatttttt	cagtttcatt	360
aaaaacagct	gggggagggg	caggcacatg	cattaagccc	cttccgtagg	cagagccatg	420
gatggacaag	ccccatgggg	gcTTTtgaag	gcanaagccc	tggaagcaca	aaaacggggc	480
ttggataaag	cttctaattg	gaagggatgg	tanagcccaa	nttcccaatc	cccaaaaacca	540
anccagaanc	tncaaagag					559

<210> 10431

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10431

ctaatttata	cattttaatt	ggttgcatat	attaacatgt	actataagat	totTTTTttaa	60
gaagcattac	ataataaatg	gatactgtaa	aaagatctga	ttagttaaaa	gtaacaagca	120
ttaacagata	gatacataca	aaactcagcc	tgatcagact	gggtgtgagc	ctgtaatggg	180
gcatggggca	ccagccttcc	caaggggtag	cctcaaggag	ggaggggaaa	gggggggtaa	240
aaagaccaca	agaccaataa	aaaaaatcag	ataattagac	acagattaac	tgtaaacagt	300
tototototc	tccagtgaac	aaaaagaata	agcttccaat	gccaactoca	tatcagaatg	360
acttccaccg	ctggcttgct	ctgctgccat	actcgcgggc	tcatgtgggt	ggcaggcaga	420
ccccaaggag	ccatcacggg	caanggctgg	agttggatta	cgtcagatct	ggngngtg	480
tgtgtgtnaa	aaaatatgtg	ggnggaactg	ggnttgaagg	ggntttcttt	tgg	533

<210> 10432

<211> 556

000220.69462960

<212> DNA

<213> Homo sapiens

<400> 10432

gaagagcaaa	tatTTTTatc	tttgaaagca	aaagccttag	taacaaaaaa	gatccacaat	60
ttttaagctt	gaaaaagcct	ttcaaaagat	ctaatacaga	atttccaaaa	accagtacga	120
cttgcaagac	attctgtgga	aaaaagtttt	gtgaccaaac	agatttggga	actgtcacag	180
gtaatgctat	tctccttcca	gatttccaca	gcaccgggca	tattagaagc	tctgagaagt	240
tttgccataa	agatacactc	taaccatgtg	tttcctttta	aggaggaaac	tagaaaggag	300
gtgacacatt	gaggtcacac	agagtaccac	atctgtcaaa	ggaaagatca	acaggcaatg	360
tcaaatttta	aggagaatgt	gactcaagga	agttcttgaa	ggacaatata	tataaaaatg	420
taattattca	accgtaagca	gaattatgtt	cagtaagccc	cttaccaatg	ctactacaaa	480
atggaatgaa	ctattatctt	aataattctt	taaaccccg	tttttaaagt	gtaaccccaa	540
ggggccaaaa	cctggn					556

<210> 10433

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10433

aaaacattaa	gcctctgtca	aaaatgtatt	tcttatttta	gggtacagga	ttaaaggata	60
agatgatact	cacaagtaaa	gaaaattttac	aagaaaaaac	ttaacaaaag	tttcaataaa	120
agtattgcaa	cattcaaact	tgacttataa	caaaagaaac	aagattgcaa	acaaaaatgt	180
ttacgggggt	tccaaacata	aataaatgaa	atagtgttta	ggcagtaggg	ctcatgctga	240
tggttagcag	gaagttaaca	gagtgttaact	tacctggaaa	aaatctttta	tgtacaaata	300
acaagcccaa	attatggact	gcagcaattt	aatcatcact	gccatttttc	ttacttccaa	360
aataaagcct	tgattaaacc	attcataccc	tatattactc	atacctttac	ttcagagatt	420
gaggaactat	atacaacaaa	ttaattttatt	ttcaccatag	ggataacata	ctgnacctct	480
ctgccaatgg	tacttgaaaa	tcttccatgt	caaaacaact	tgacagtaga	tntaaccatt	540
caataaatat	gccatggaac	tt				562

<210> 10434

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10434

gaagaacagg	agataacagt	ttattaatat	ggcatagagg	gaggtggtgg	tggcagtttt	60
tgatggagac	ctgttaaaat	gctgatagga	gagagacggt	ggaaaggaga	gtagcatagt	120
tgtttgaaaag	catgaatctg	cagtctggtt	gcctgggttt	tgaatcctag	ctctataatt	180
gctaggttat	cctgaggaag	tcacttgccc	tcatagggtt	gtgaggattg	ttagatcaaa	240
ttatcaagaa	tacttaaaat	atgactggtg	aggtggtgag	gtcaaaactct	agccctgcct	300
gagcatgcat	atactatact	gctcccacct	gcccttggac	tgcccttccat	atctaaaatg	360
nattcattct	tcagattcca	gctggcctgn	ctcactgccc	ctcaggaacc	cctgctttca	420
acaactaatc	aagnggatag	actttatggt	cctctcttnt	agcaatgacc	ancctccctg	480
ctntgaggca	tacaagcctt	tcctttttta	ncctccggac	atacccccc	atttgnccct	540
tccaccttcc	tanaatango					560

<210> 10435  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10435  
gtggagaaaa aaaactttat tgggtattaca gcaaaaaaatt cacataagat acataaatta 60  
tgataacctca aagctagagg caaataaaaat acaccttaatt atacaaattc tatacaatta 120  
aatcaagaac attaggaanaa tttttttgca aaaatgtcaa aaaaaaagat ttgatctggt 180  
cgggtatagt ggctcacacc tgtaatccca gcactttggg aggccaaggc ggggtggatca 240  
cctgagggtca ggagttcaag actagtctag ccaacttggg gaaaccccat ctctacaaa 300  
aatacaaaaa ttagccagggt atggttggtgt gtgcctgtaa tcccagctac tagggaggct 360  
gagccacgag aatcgcttga acctgtgagg tggaggttgc agtgagcccg agatcgcacc 420  
actgcagccc agcctgggag acagagtaag actcatctca agagaaaaaa aaaaaggatt 480  
tgatccaacc caganttcng aaaaacaaa cccaaaaccc tgggactngg tacattatta 540  
aatnngggac nccgnnaaaa c 561

<210> 10436  
<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 10436  
gattttgagg ctgagttaat atttcaaaaat tgtaaccgta gcaaaaactgc attggtattt 60  
agaaaaataa aaaatttcca atatgtagtg ctgtgttata cctgcctctg ccatgcagca 120  
tcatagcctg tgggaaccag gagggcttcc cttaccaccc agagcagagg aggaagggtga 180  
tggaatatgg ggtgagggga ggaacctggt ggcccctccc tgagatggcc agaaagccct 240  
tggcctcacc tgggactgac caggcagccc tagtctaggc acaagggtgcc ctttcaccct 300  
tcatggctgt gggaatatit cctcttactc tttttctccc atacagctac tgccaaaatg 360  
cccaaacttg ggccaaatgt tgcccaaact tgggccaanaa atgttgccca agagaccnaa 420  
ancagaggaa aacaggttcc aaatctatgg agatcatgag cngaaatctt gangctttga 480  
ataaagggct taaaagggca ggaactcttt gggngggcca aancanacgc ccattcccaa 540  
gggctttcat tggaatgggg ggnaaggctt gttn 574

<210> 10437  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 10437  
gaggatatttt agtaacctac tttttatttt tactttttaca aaagcttttg gttggtgaaa 60  
aattaagtaa totaggcatg atttatggga tgcaggagga tgtggatagg ttacatgcaa 120  
atgtcctttt ataaaaggaa cacagcatct gtggatttag gtatgcttag ggggtctgga 180  
accaatcccc tgcatatggt taggggataa ccatattcaa aagaaacatc ttaaggcttt 240  
accatgtgtt tgcatcatg aggcttatct cctatgtgat ttctttcacg tttctgaaat 300  
gaaataaaat taatgaatgc ttttcacat ttatagagta tctctccagt gagtctttt 360  
atgtctatgc aaggaaactga gagaactcag tgccttccca cattccttac attcatgcat 420

09629469.072800

cttctcttca	gtggtgagtt	tttcatgtcc	togaaggaaa	cogagaacca	ntggaagctt	480
tancncattg	gtgacattca	taagaattcn	tttccagggg	gaatcnttca	tggtcccaaa	540
aggcaanggn	ccccaaaaa	gc				562

<210> 10438

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10438

cagtttgtgc	gtgtcacttg	aatcagaaac	caaacacatg	taaaaaaata	tcacccctcaa	60
tgccccccat	taactctctc	tccagaaggt	gacaatgtta	gtgaactcaa	gactctcact	120
gatgatggta	ttttacaatg	aaaacacaag	gaaacccttt	gaggccaat	tttcacatca	180
tattctccaa	atagtataat	agcagctcta	catgttgatg	aaaagaaatt	tcaatttctt	240
cctatttgtt	tttactcata	tcaacattaa	tatgtatctg	gatttattaa	tttccaaaaa	300
gaaaatttta	gttaccaa	atttcagaaa	tttaataaag	cattacatat	atgtaattag	360
cacttatcta	ccaaaaaaac	atatgtgtat	gtatttattt	atcttacctt	caactgaagt	420
cttttttctg	gctggacatg	agaaacagga	ttaagtgatc	aatgctggct	ttatttcttc	480
ataagcagta	atttgggnct	ttttcattca	acacacgcag	catttcataa	taaattccca	540
aaggccattc	ct					552

<210> 10439

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10439

aaaaaaatgg	tattttatta	taacttttaa	aattgcggaa	catcagactg	aatatcatca	60
gacacataca	caaaaccact	catctctaaa	gtcattttct	ataccctctc	aaaatttggc	120
cagttagttt	tgccctcagg	aattttccag	ttcaacccca	tacaccaaca	tggaataaat	180
ggaaacacta	gccttttggg	tttgccaca	gttccaaagt	gctattacag	goggaatata	240
tgctgcagga	ggctattctt	gctgctgtgg	gtgtgagtaa	aatgcttagt	tccttctaaa	300
atcataattg	caatatggac	ttctgcttca	cgctgcaccc	taaggcacaa	atcaggtaac	360
ctacatctcc	caaagtatca	acagagcact	ccatcctatt	ttaccctcaa	tgctgagaaa	420
ttactcctgg	gcccagaagt	tgtcacatag	gtggcttggg	ntacttgggt	ctcangcaca	480
actgggcaca	nggcccact	tggtgacaca	tcaattcntt	naatatgtga	tnctanaa	538

<210> 10440

<211> 523

<212> DNA

<213> Homo sapiens

<400> 10440

ataaaaacag	acaatcaagc	gtgacattta	atggagttag	ttattattgc	ttctatttag	60
tatcatcaca	gattactcat	cgctgccatg	aagtccataa	aatgtgtgac	tacctgattc	120
ctgggcatct	aggacagggt	cttttaacct	gtcaagtcag	tttcattatg	gccaattttc	180
tagcagtggg	tggggatggg	gagaggagag	ctttgatttt	tttgtgtgta	gaagaacttt	240
ccataagcct	gtttggctca	tggacatatt	ttacaatgta	acctccctca	gtcactcaga	300



ggggatcaag	aagggccccc	taaaaccagg	aggacagatc	tagttgggca	gcaaaatctg	360
gctattttcta	gaaatgctcc	ctcttcctgc	aactgagcag	ttgtccccta	caagccacta	420
aagcccccaa	tctttacctg	ngaacccatn	ttctgactct	ggggaatgcc	tgcanaagcc	480
tggtagggga	caancogtca	aaagntgatg	aacntgctn	ggg		523

<210> 10441  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

<400> 10441						
aaaagaatga	gttacattta	ttgatatggt	ttgtcatatg	ctttataaat	ggtcaccctt	60
tgaacatgt	attattacta	tttgggggag	agggggactg	ttcattttac	aggggacaag	120
caagacaggc	tcaaggaggg	aaaggacagg	ctcaaagtca	tcacagtgtg	gggctggaat	180
gcagttgccc	ttccttcttt	ctttttgcac	atcttcogtc	tctaggggtga	ggaggggtgt	240
aggcacaggc	acccaagaca	gccgcgggtc	agccccggcc	ccacctgtgg	tctcagtac	300
gccccagagg	ccccatcttc	cccacataat	gaggctgctc	catcctcctc	aaagcccaga	360
cctatttcat	aagccccaga	ccccaccttc	acccagggcc	ccaagagaac	agagctggag	420
acacttctac	tcctagcact	ggatgccttc	tcccttctgn	gaactgtang	tgggggggtg	480
gaaggcacc	ctttaagcan	gctcgggggg	ctttgaactc	caagactctg	gaaaccnnta	540
naaantggga	agg					553

<210> 10442  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

<400> 10442						
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnn				563

<210> 10443  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

<400> 10443						
attaaacaaa	tatttattaa	cgggcccata	aaaataatga	agttactcac	actgagtcct	60
agtccattct	gtttttctga	tttgcataag	caaaggctca	agttctggag	ccaacccttc	120
agaggtcttg	agaatgaatg	atgggtaagt	ttattttggac	aaccagaagg	acttttcac	180

acaactgaag	ccattttata	atgtagaaat	ttctttttcc	tattttaagt	aaggaaagtc	240
cattcttgag	aataatgtgt	ccaacaatta	aaacactctc	aggatttggt	acttggtggt	300
gatttatgct	gactccgcct	tctgttatca	ttcgataccc	tcggggacca	tctggaatgg	360
catttgcttt	gcggcaagta	tctaggacac	ttgttccagg	atcgagaaaa	aattcagaaa	420
atggagcttc	tttaaacac	tcttttaact	cctgacagac	tgaacctccg	gggctttaat	480
ctctggggat	aaaggcttgg	ggacccccct	tagcagaatc	caatcntttt	ggccatgacc	540
agcttggtc						549

<210> 10444

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10444

gtacatcagc	atctttacaa	tattaaagga	gcatatata	agtttacagc	cattgtacac	60
aggatggtga	tggctgggga	gccccgcca	ccagtcctnt	gcagtttctc	caccgganaa	120
cacttgggga	gctgtcacia	ggccaggggg	ggctcatntt	tgggcctgtc	gtggggcagg	180
cagcaggtct	gcaaggactc	ctcagggcca	gtcctcactg	gaatcagggg	tcaanagcgc	240
caggctctgc	tgtgtctggg	tctcatcggc	aggctagtgt	aacaacgtga	attaaaactg	300
ggcatattcg	catganaaaa	ctggagctgg	ggatggctcc	ctgagctggg	gacctagaag	360
acgctgctga	cagatgggcc	ccttcattgt	ggggcccat	cctgaggtaa	cgtgcaaccc	420
tgaggctggt	cccaacggaa	ggagactttt	ccagcagccc	cagggggccag	tcccacacag	480
acnggaattg	gaagcccttg	gcaacaagtc	angggaccgc	ggaaggcaac	cctgacc	537

<210> 10445

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10445

ccggcaagaa	atcatgttta	ttcacattcc	ccaccccacc	acctgagagt	cactttcact	60
ccaagccctg	ggcctgacag	gagggggcca	aagagggggg	ctgcctaagg	cagggcccag	120
accccacagt	gtgggcctct	ggagctgtgt	ctttactctt	gctgccgata	aatcccatgc	180
tctgaaatgc	gcacactctg	gtcctttagt	agatgccata	ggtgggctca	tgaactgtccc	240
tgtaccggtc	caggtagcgc	aggggctgcc	ggtgggggaa	gcgcttctgc	ttggggtggt	300
aagggggcgg	ccgcacgaac	tcaaacaccg	gctcccgcat	gtccagaagc	tggtggaaga	360
tgtaggtgac	ggagtcatcc	cagcggcact	ggaagaagga	caagccggct	ggagtcatgg	420
nttcttgng	nttcttgnaa	aatcaaaaag	tgccgaaagg	nccctgggcc	nacttgatac	480
aaggtgaagg	gccgtcgtnc	ttaaaagaat	caatcggt			518

<210> 10446

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10446

agcacaaatc	cagttttaat	gttcaaata	acagcaaaaa	ttatgatgga	tagcaattca	60
ttctcactaa	aacacagcta	atacatgttc	cttaaatcat	gaaggtaaag	tggaaaaaact	120

aaatagtttg	atgaccttag	agaaatcatt	tattctctct	tatactcagt	taaatgggag	180
cctggttatc	acaatagaga	tgagtaataa	tgaaggtaaa	atgcctggta	aaatgcatca	240
cagtaggcac	ccatcttatt	atacacatgt	caataaaaaat	aagcatctat	ttttaagg	300
aagaaaaagaa	atgcttctta	ataaagctct	ggatgaacca	tttatcttct	ttcaaaaaat	360
gtaaaaaacac	ataaaaaagc	attatctgac	aaagaaaagt	agaaaagatt	tttatcttta	420
attagagttt	gtagtataca	cttaactttc	tgtaatctgc	agtgatgaat	ctctatgtaa	480
acattcagaa	aaagagcgaa	tactgggtca	tgacttatga	actataaatt	ttggcctgga	540
tactaggcca	gnacnggtt	ataccttn				569

<210> 10447

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10447

aagttactgt	aggacttcaa	agaactttta	atttgctcac	gcatactcca	aagattttat	60
aaaaaaagta	tttcttaaac	ttagttataa	aaagaaggat	tccataggca	cgaggacccc	120
agtgaacaag	ttttgggaag	tgctgctcca	cgggtgggccc	ataagagtct	tgtaaagata	180
gaaaagtagg	ccccaaaaac	aaactctttc	ccaccagcca	tcagttacta	tcttcaaaaac	240
tgcaagtgtg	gctcaatgtt	gtcattctgt	actctcctgt	cttcagcagg	gtttatggta	300
tttttccact	tgctgggtcaa	atctcctgga	agaataccct	gcctggaaaa	agttcactgg	360
agtcagaaga	tatttgagtg	ctagaccct	gaattcagta	gctagaanan	gggtgccctt	420
gctgctgtg	gacaggggag	aacctggnc	catccaggca	ctctgattcc	tggggnttct	480
ggcctcatca	tcatcttcca	tgggtnccaa	gggggaccct	aaaccaattt	cctcccgggt	540
ttttgagaaa	naaacco					557

<210> 10448

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10448

cagggccaaa	acgttttact	ttccatttga	atttacaacc	atatacagac	aatatggtaa	60
gatttttagag	aaaacagatc	atcactacga	atatccatat	tctgatttct	tttgagaacc	120
aaggtgcctt	ttaaaatgcg	gctttttaga	atagcatgtg	ttgtttctgt	ctgggatcta	180
gatcttgtct	gctacaaaac	aatgaacac	accctgtgta	acaaaatoga	attttaacat	240
ttaaatcttg	attccaatat	tcctgacct	tctcttgtca	tatgaaagaa	agaagccttt	300
ttttaaaaca	aagtttcaat	tcagaatttt	tacaaacaaa	aacaatcctg	cgtctactta	360
atatccctgt	atatcctcaa	aaagcaagtt	caggaaattt	aaaaatgatt	tataaaaggc	420
actgaagtta	gcaaaaagcat	tggtgggttt	tcatttttga	ttaaacactg	gaaatgttca	480
cagagaaaca	actgtgtgag	ccagttgcc	gtaacaccca	ggaagaacog	ncttcaggca	540
gcacctctgg	acacttagcn	g				561

<210> 10449

<211> 519

<212> DNA

<213> Homo sapiens

005240 69462960

<400> 10449

gctcttagaa	tagactttat	tgacttttagc	caagggcagg	ccctgagatg	ggggtccaga	60
gagagaggct	tggtggggct	acgtcctggg	ggccagggtg	gttctgaggg	gtagaaggcc	120
atccacccat	tcgcacggct	gctccaggag	ggcttgccac	agctgcttct	cctcagggtgt	180
ggaatccatc	cagggcacct	gcagcccata	gctgctgccg	gtgcccaggc	tgaggcgtgt	240
gccccccagc	tggcgggttg	ccagggcccc	atgggtccag	agggagagct	cggcacaagc	300
ctggcgagg	tcagcaggcc	caaagccatc	gtacaccatg	gtgtgattga	acacagggt	360
gaggctgcgt	cgcacaaccc	ttgtacgctg	gcggctggcc	tggtgtcat	cangcagcac	420
gaagcattgt	acctaagtgt	ccanggatcc	tgccgcaacg	gcangangtc	ccgaacctct	480
ttanccaaaa	tgcnagnttc	cgtttggggc	aanncttgg			519

<210> 10450

<211> 453

<212> DNA

<213> Homo sapiens

<400> 10450

aacagtcaaa	gtgcatttta	ttgccaacag	aacacttcag	gaggaaatgc	taacacaaaag	60
ccaaggcgct	ggtgctggct	cattttttgct	cctcctgacc	ttggccagta	tttgggtangc	120
tttccagagc	acaggggtgaa	aggctaaagg	gctaggactg	gggtgggggg	agcaggaggg	180
catggcagct	gctggctctg	tcctcccagc	ctgggtccac	ccntcctgcc	gttctccttg	240
ggctcaaggg	acacacattc	gttcaaattct	gacgggcaaa	gccagggcct	agcccactct	300
agccgcaggg	tcctctccct	gagggccctg	gtccagcacc	tggtttttctg	ggctttttct	360
ggctganctg	gagggccctag	ggccaagccc	actctccgga	gggctggaaa	ccaccnttn	420
aggtggncan	tggggcnccg	ccanaacggg	gga			453

<210> 10451

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10451

atacctttta	ttttcgttct	gttgaatcta	cattatacct	cacattctct	tcctatatattg	60
atagccttta	tatacctctt	acaaatcaaa	gctataagac	tatattaaag	aaattatgaa	120
aaactattac	aattgttttt	tcatatgcaa	gatggcacta	gcattctccc	cagaaaggga	180
aggaagaaaa	ggtctcattg	tactttctct	tgaattctcc	tttaggggag	aaaagtagaa	240
cottacagct	gccagcaatg	caaatcttcc	cattcatgga	atctgggaga	agaatatgtt	300
ctttataaat	tcacatgaga	caaagatgcc	aaccagatgc	actgattgta	gaggattata	360
ttttattcaa	ggtgacaatt	aggccttata	aacctccctg	ataatctata	aaaatataaa	420
cagtggtagg	ttttattttt	aagtgggaga	agtcttggct	aggtggatgg	tgagaatcac	480
aatggaagg	aatattaagt	taccgggaat	ataagtttgg	aacnttgaaa	ggactttttt	540
ataggacatt	ttaagaaggn					560

<210> 10452

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10452

gagagacaat	aggaatTTTT	aatgcatgga	caggcctgca	gggactctgg	gcagacccac	60
aggtagcagg	aagaggcagg	gtcccacaaa	ctcaataatg	tccagcaaaa	aagagagaga	120
agtccTTaaa	gacccatgct	tcctcaactgc	aaccatcctc	agagcttccT	tcctggTgct	180
gaagaggTca	aaactgtctc	ctctaggggt	caggTcaaaa	ctgtccctcc	ataggTctcc	240
tccaggggtc	catggcagga	agaaagcaga	gtgtggcagg	aagaaggaag	aagagcaaaag	300
gccgcttggT	ctccacctga	aaacttctgc	ctcgggattg	acagccatcc	ataagaaaag	360
gttTaaaaaag	gagagacttt	tgatagagTc	aaataatatg	Tgtttcgggc	cattgacacc	420
atcttctccT	nacacgtgat	tttggtggcc	ttgaggatgc	tataccacac	catgccttgc	480
aggccggacc	ttcttggttg	gggcagaaaa	gataggcact	ggtttcaccc	ggnTntggat	540
gtaggcncTt	ccnagga					557

<210> 10453

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10453

ccagtttttg	agagtttatt	ccagcaaaaa	tctgagaata	gtcatccaga	aacatgggct	60
ccagagaaaa	ggagtaagtg	ctccaaagtt	aaaagtTaaa	gtcccaccag	gcatggnggc	120
tcaatgttag	tttttatccT	Taaaattgcc	Tgagttctta	gaacacagaa	aaaacaaatt	180
Tgaatgcatt	tctaacagct	Taataattta	Tatgtcccat	Tatgatttta	gcggaatgtt	240
Ttaaagcaaa	gcataattca	ctgcaaagat	aaacctgaaa	aagcaaaaca	acttacaatt	300
ggtatgttat	gacctagaca	aaactgatta	Tcaactagta	atactcataa	Ttagcacatg	360
caacagattg	agaaattTaa	tcctngncta	Tatactctta	agtattttgt	cagatatatc	420
Tttaaatgtt	ctatcaattg	cattccTttc	cacacatatt	Ttaaacagga	aaacaatggc	480
TttccTccan	atctcaaggt	Tatcaggcaa	aacgtgcaat	ctcgTaaaaa	Tgggtatttc	540
catggtntt						549

<210> 10454

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10454

ccTTTTgtat	Taacttttat	Ttacctgtta	atgaaatcat	caaaatacaa	Tgagtaggca	60
ccTtctatgt	acatctgtcc	tagTgctttt	gagTgtTaat	ctaaactcat	acatcaacaa	120
acattctagc	cggacaagta	ggtggctact	cagtccatta	agaaactTaa	Ttactagttt	180
ctagtagccT	Taaagtctca	Tttaacattt	aacaaatcaa	agagcatgtc	agaggctgga	240
catcaatggc	agatgatgcc	aaagTcatag	ggttttgccT	Ttgtgtacag	Tgcataggct	300
ccaaaagcatg	acctgcacgt	cttgatactc	aggaatTTTT	ggaaaaagaa	aatcacactc	360
Tttggccact	TttaaaaaagT	gaaaaggtag	agccTtcatt	accctagtag	agctTaaacct	420
aatncantnc	aatgaaccaa	ncnggaagaa	nggcatnttt	acaaaccctt	Ttcaaaaagtc	480
attggccagc	T					491

<210> 10455

<211> 558

<212> DNA

008220" 69462960

<213> Homo sapiens

<400> 10455

agataaaatt	aaactgactt	tattaaacag	agtcacttca	ggcctttttc	ttatgaacag	60
agtgatcctt	agtcgggtaa	catgtcaatg	acagtgcact	ctgtgcctct	cctgcattgt	120
ggggagggca	cttcttaagg	caaagtaaaa	ttcaggacct	gcatgaaatc	agttttgctt	180
ccatttgagt	tcgatttatg	ctattaatag	ttctgatcac	caaatttata	acatttaaag	240
tactgtctgt	taccgatgt	ctggatatgt	tacataaaac	gtggttctgc	ccagtaacag	300
cattaagggt	aaaaatgggg	atttccccta	aaattattac	catcatgtca	tcctagagt	360
gtaccacact	gggagaggtc	caaaaaacaa	agcattagat	ttcaggctaa	gaacagccag	420
ttttaggagt	aagaattaca	tcgaatagcc	ttaagagcct	ttaaaaaggt	caaggcttct	480
taaacttcag	aaatgaaacc	aaaccaaacc	aaaccacnc	caaaaccaac	ctaccaaac	540
ccaaaacttt	tgngcca					558

<210> 10456

<211> 484

<212> DNA

<213> Homo sapiens

<400> 10456

caagcaaaaa	attattcttt	taatacagct	tttaccaaaa	cagttttaat	acatgagtgg	60
ctacaatttt	attgtgtaca	caatgtgctt	atagtcacat	gtggcccaat	ggatcccaat	120
gcctcctctg	gctcatgaaa	tcccatgtac	ttcacaatct	agcctaactc	tgtatatgca	180
taaaagccac	tggtatactt	tttacagaca	tctttgtata	atagtcocaga	aaaaaaaaatc	240
agtggtaact	aagaatgttt	agacaatttg	acatctacgt	ttgctttctt	ttcttttcag	300
tagtccttct	gatgattggg	ggcctttatc	ccatagggtt	atactgttaa	aacagtacat	360
aaaattacat	ttagctttgc	ctagagtaat	agataaaaaa	gggtaaatca	cacattttca	420
agaagcttga	gaggnaaaaa	attgcagcat	cgnggnttta	aaaaactnnt	taagcnngaa	480
aatc						484

<210> 10457

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10457

gagcattcca	aattttattcc	ctttaagtaa	acctatagcc	actacatatg	tccttgacaa	60
ttagaacaga	aaacaaaaaa	aggacaaata	gaaatacttt	ccattctgtc	tatatagtag	120
tagttttggg	ggtatagata	gtaaacacta	gtcaagaata	ctcgtctaaa	tatgttggt	180
aaatgtagtc	atcatttggc	atgtgttttg	ctttgggtata	taatgaagtt	gagctatccc	240
atctttcttc	tctatggaat	atagtcacac	aaacaaaaaa	gatgaatctc	actagagggtg	300
ggtctttatc	agaaatatgc	cccaatctag	ttaggtaata	gaaagaaaaat	cattttctcc	360
tcctaggcct	aagattcttc	atgtaaaaat	tataagactg	aataaagatc	acttctaagt	420
ttctataatt	catgtagata	tatcaattta	tacatcatga	tgtagacaga	cagcaagggt	480
atctttctgg	ctccatgatg	ctaggcttgg	ccacatgact	tgcttaaagc	accgtatgga	540
tacatgcac	tt					552

<210> 10458

<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 10458

ggtatattca	tacaatggaa	ttttattcag	ccatagaaag	gaatgaaatt	ctgacacatg	60
ctacaacatg	ggtaaaccctt	gcaaacgcca	tgctaaatgg	aagcctgact	gaccaggggc	120
tcttgggctc	tcaatgcaat	agaaactgac	atggggccaa	aagacttccc	agacaaagca	180
cgcgaagggt	agaggatata	ggttagcatc	atctggttgt	gatgatcatc	tcgagtaatg	240
ggccacctgg	tggtctggcc	agcggcaaca	aggctgtaaa	tcaattaatt	attcagcatt	300
ccctcccaag	atgggacact	ctgcaatcct	ggttccctat	ttggatctcc	taaggccagt	360
tcctggaatt	gtttaagtaa	aagacatggt	taagcattat	gagagcacag	aagaacaata	420
cagaaaggcc	atcttctttg	gatgactaaa	gccctnaggg	tagcangtat	ngnggcaatg	480
aagaaatant	attgggggttt	gggatcagtg	ggaatgcntg	aaaaaaagct	ctaattggggg	540
tgaa						544

<210> 10459  
<211> 135  
<212> DNA  
<213> Homo sapiens

<400> 10459

gcctttcccc	ggtgctttat	tacacgtgat	ggcgaccagt	ctacaccaca	gactagatcg	60
tgcgatgcca	cagaagagcc	ttcccgcttc	cctccaccat	gtcccccttg	ttgggggggg	120
ggaagggggn	nnnnn					135

<210> 10460  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 10460

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	60
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnn				563

<210> 10461  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 10461

gacacagagt	cttgctctgt	tgcccagact	ggagtgcagt	ggtgcaatct	ctgctcgggt	60
caacccccac	ctcctgggtt	caagcgattc	tcctgcctca	gcctctccag	tagctgagat	120
tacaggtgcg	caccaccacg	cccagctaata	tttgtatttt	ttagtagaga	cagggtttca	180
ccgtggtctc	aaactcttga	cctcgtgato	cgctgtctc	agcctcccaa	agtgcctggg	240
ttacaggtgt	aagccactgc	gcccagccag	taattcttat	caaatgaaaa	atgatcttca	300
ttcacaaatga	ctgaccaaac	ttctgagttt	ccttcagtta	atttcaaatc	ctgagggtcaa	360
aatcaccaat	gacttttgc	ctttggcttt	caaagtggga	catatcatca	aatggcccat	420
atacncaaaa	tttacattat	agacaaatnc	atatttgnca	tatgttngaa	gcctnattcg	480
tgatttatag	gatttaaaca	ncntaggctt	ttcttaaaag	ggatctgaag	tcaatagggt	540
nactccacct	tgc					553

<210> 10462

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10462

gagacggagc	ctcgtctctgt	cacccagggt	ggagtgcagt	ggcgcgatct	cagctcactg	60
caacaacctc	tgctcctctg	attcaagcaa	ttctcctgcc	tcagcctccc	gagtagctgg	120
gattgcaggc	atgtgccacc	acgcctggct	aatttttttg	tatttatagt	agatatgggt	180
tttcaccata	ttggccaggc	tggtctcaaa	ctcctgacct	tgtgatccac	ctgcctcaac	240
ctcccaaaagt	gctaggatta	cagggtgtgag	ccactgcgcc	cagccaatta	catttttaac	300
aaccogaata	ttacagatca	tttcacagtg	tccttgccac	ctttatacac	atcatatcat	360
taggttcaac	atattttgac	ttgttggcct	tgccacacac	aatccatttg	tgtgttttca	420
ccaaagatga	atgtttcgat	gtctagtgtat	ttggtaagggt	ctcgatcaag	cctggggccac	480
atatagtacc	atttaaanga	ttcttctaana	atagactttc	ggatgtgata	ctggtttnaac	540
tatgataaag	ttggccaact	aattgt				566

<210> 10463

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10463

gntttttcca	gaattttaata	tttttaaaaa	gacagaaaaat	ataaaaaatta	ccaaaaaaaat	60
gttttaaagg	tcatttttggg	gctaaataact	aggactgaaa	ctcttttctt	gtaattgatt	120
tatggtaaag	agtaaaaaata	atataaaaaa	cacagcagtt	atagctgtcc	aaatgaaagc	180
ctatctgcaa	aaaggcagga	caagggtggc	tgactgagca	aatattcaca	tcacgacctt	240
agtaataaat	ttcaaatgggt	ttcagttccc	aagatctgaa	aagagaatca	totttgcacgc	300
ttagattcca	cttcttcaag	aatccactca	atgccattca	aaaaaccagt	cagagtttca	360
gcctctgtat	cctggaccag	ccatgggtga	tttagaagat	tcagacgcag	ctcatgagcc	420
aaataaaaaac	agggcattct	tttcatccc	cttgagaaat	ccagatnaaa	cccaccatgg	480
nccttccgaa	aacccaaagg	ctggaactgg	catggcctaa	tntgagaaaa	tcatnttggc	540
atcangcttt	atgacctcan					560

<210> 10464

09629469.072800



<211> 30  
<212> RNA  
<223> Description of Artificial Sequence: an artificially synthesized oligo-cap  
linker sequence  
<400> 10464  
agcaucgagu cggccuuguu ggccuacugg 30

<210> 10465  
<211> 42  
<212> DNA  
<223> Description of Artificial Sequence: an artificially synthesized oligo(dT)  
primer sequence  
<400> 10465  
gcggctgaag acggcctatg tggccttttt tttttttttt tt 42

<210> 10466  
<211> 21  
<212> DNA  
<223> Description of Artificial Sequence: an artificially synthesized primer seq  
uence  
<400> 10466  
agcatcgagt cggccttggt g 21

<210> 10467  
<211> 21  
<212> DNA  
<223> Description of Artificial Sequence: an artificially synthesized primer seq  
uence  
<400> 10467  
gcggctgaag acggcctatg t 21

<210> 10468  
<211> 1881  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (108).. (1769)

<400> 10468  
gcgcttttca ctgacaggcg ctgttcccca cagccagcgc cgcccgccac gtcccagctc 60  
tcggccaacg gagctgcgcg gcgggtgacc tttccgagcc cagcgcgatg acggctcctt 120  
gctcccagcc ggcgagcgtt cctggacgcc gccagctcgg gctggtgccg ttcccgcgcg 180  
cgccgcgcgcg gacgccgctg ctgtggctgc tgctgctgct gctggccgcc gtggcgccgg 240  
cgcgcggtg ggagagcggg gacctggagt tgtttgactt agtggaggag gtgcagctca 300  
acttctacca gttcctcggg gtgcagcagg atgcatcatc tgcagacatc agaaaagcat 360

009270"69462960



-3972/13211-

Tyr Glu Val Leu Lys Asp Asp Glu Arg Arg Gln Arg Tyr Asp Asp Ile  
115 120 125  
Leu Ile Asn Gly Leu Pro Asp Trp Arg Gln Pro Val Phe Tyr Tyr Arg  
130 135 140  
Arg Val Arg Lys Met Ser Asn Ala Glu Leu Ala Leu Leu Leu Phe Ile  
145 150 155 160  
Ile Leu Thr Val Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Glu  
165 170 175  
Lys Gln Leu Asp Glu Leu Leu Ser Arg Lys Lys Arg Glu Lys Lys Lys  
180 185 190  
Lys Thr Gly Ser Lys Ser Val Asp Val Ser Lys Leu Gly Ala Ser Glu  
195 200 205  
Lys Asn Glu Arg Leu Leu Met Lys Pro Gln Trp His Asp Leu Leu Pro  
210 215 220  
Cys Lys Leu Gly Ile Trp Phe Cys Leu Thr Leu Lys Ala Leu Pro His  
225 230 235 240  
Leu Ile Gln Asp Ala Gly Gln Phe Tyr Ala Lys Tyr Lys Glu Thr Arg  
245 250 255  
Leu Lys Glu Lys Glu Asp Ala Leu Thr Arg Thr Glu Leu Glu Thr Leu  
260 265 270  
Gln Lys Gln Lys Lys Val Lys Lys Pro Lys Pro Glu Phe Pro Val Tyr  
275 280 285  
Thr Pro Leu Glu Thr Thr Tyr Ile Gln Ser Tyr Asp His Gly Thr Ser  
290 295 300  
Ile Glu Glu Ile Glu Glu Gln Met Asp Asp Trp Leu Glu Asn Arg Asn  
305 310 315 320  
Arg Thr Gln Lys Lys Gln Ala Pro Glu Trp Thr Glu Glu Asp Leu Ser  
325 330 335  
Gln Leu Thr Arg Ser Met Val Lys Phe Pro Gly Gly Thr Pro Gly Arg  
340 345 350  
Trp Glu Lys Ile Ala His Glu Leu Gly Arg Ser Val Thr Asp Val Thr  
355 360 365  
Thr Lys Ala Lys Gln Leu Lys Asp Ser Val Thr Cys Ser Pro Gly Met  
370 375 380  
Val Arg Leu Ser Glu Leu Lys Ser Thr Val Gln Asn Ser Arg Pro Ile  
385 390 395 400  
Lys Thr Ala Thr Thr Leu Pro Asp Asp Met Ile Thr Gln Arg Glu Asp  
405 410 415  
Ala Glu Gly Val Ala Ala Glu Glu Glu Gln Glu Gly Asp Ser Gly Glu  
420 425 430  
Gln Glu Thr Gly Ala Thr Asp Ala Arg Pro Arg Arg Arg Lys Pro Ala  
435 440 445  
Arg Leu Leu Glu Ala Thr Ala Lys Pro Glu Pro Glu Glu Lys Ser Arg  
450 455 460  
Ala Lys Arg Gln Lys Asp Phe Asp Ile Ala Glu Gln Asn Glu Ser Ser  
465 470 475 480  
Asp Glu Glu Ser Leu Arg Lys Glu Arg Ala Arg Ser Ala Glu Glu Pro  
485 490 495

008270.69462960

Trp Thr Gln Asn Gln Gln Lys Leu Leu Glu Leu Ala Leu Gln Gln Tyr  
500 505 510  
Pro Arg Gly Ser Ser Asp Arg Trp Asp Lys Ile Ala Arg Cys Val Pro  
515 520 525  
Ser Lys Ser Lys Glu Asp Cys Ile Ala Arg Tyr Lys Leu Leu Val Glu  
530 535 540  
Leu Val Gln Lys Lys Lys Gln Ala Lys Ser  
545 550

<210> 10470

<211> 1753

<212> DNA

<213> Homo sapiens

<400> 10470

```

tttcccgcca cggcagtgga gccgacagtg actatgagaa cacgcaaagt ggggacccac 60
tgctggggct ggaaggggaag aggtttctag agctgggcaa agaggaagac ttccacccag 120
agctggaaaag cctggatgga gacctagatc ctgggcttcc cagcacagag gatgtcatct 180
tgaagacaga gcaggtcacc aagaacattc aggaactgtt gcgggcagcc caggagttca 240
agcatgacag cttcgtgccc tgctcagaga agatccattt ggctgtgacc gagatggcct 300
ccctcttccc aaagaggcca gccctggagc cagtgcggag ctcaactgcg ctgctcaacg 360
ccagcgccca ccggctgcag agtgagtgcc ggaagacagt gccccagag cccggcgccc 420
cagtggactt ccagctgctg actcagcagg tgatccagtg cgcctatgac atcgccaagg 480
ctgccaaagca gctggtcacc atcaccaccc gagagaagaa gcagtgacct ctctcccccac 540
accctcacct gcaccctagg acctcactgg ccataggagc tgggcccactc cagacattaa 600
tccccacccc aacagagcca ctggcacaag tgcccttagt gctgccacac tccctggcag 660
ccaggtgccc tgggtgcccac ccctgtcgag cccctaagga tggggagggtg ggggggcagg 720
agcttctgtc cccacattc catgcacctc ccctctgtat atagcatctc cccctccta 780
gtgagcaggg gcctgcaagg catcactccc agccctcgc cttctagggc accctcagca 840
aaggggcagg tggggacact ccaagtgggg cagctctccg tacatgogcc ccaccccat 900
gagccagttc agccctactg ggggctgagc gggggcatcc cctcctttgt acatagtctc 960
catggatgtc cctgccctgt agccaccagc cccttgctgc tctcccttta atgccatatg 1020
gcccctgcct agggcacagg ccccaacctg tgtgctgggg tcccagcag caaacactgg 1080
aaagtctgtt tttttttttt ctttcttctt cccacccct taattttaac tttgtggtaa 1140
ctgagtgtccc ccgctgcct gcgtgttgag tgtgtggcg gcagtgccgt tccggaggcc 1200
tggtccatct ggagttttga ggggtgaggg gaccagagca gtgggaccag catggggatc 1260
agcttccctt cccacctgg agccaggga tgtccgggtg gccagttttg gtccctgccag 1320
ctgcctccct gatccctccc cactctcgcc cttctctat gaacttaaat caaaaaccac 1380
ttccctccat ctctcctgc tctgctgtgg agggggaatg tgtgctggct aggggtggagg 1440
actgagcacc tgagcctggg gctggctccc cggggtcccc gactcagctg gtggctgtgg 1500
agctgagtcc cctccccgta acctctgcaa ggccagcacc caccatcact acctgcacct 1560
gctgtggtcc caccctctgg aggcctggga acctggctgc agcctgggaa ggctggagag 1620
gcagacgggt ggaccacca gctctctccc catcccgctt cttccctggg ggccaggccc 1680
tacctgtgtg gtggtgggtg ggctgtcaag acgtgtcatg tacatttgta tcaaaaataa 1740
agaagtgacc atg 1753

```

00629469.072800





```

ggccctgtgt ctactgccag gatagcattc ttacgtgtta catatagtgg acttgtcatc 600
cttaaaatgt gaacagaatt tattggcagt gtggcaaaga attataaaac atagtgttta 660
atgtacttgg agtttccttg tagtagtaag tatagagttt gatgataagt aaacgtccct 720
taacaaaaac ctcaacctta ttactatccc attaaaaaac agcaaatact tactgagttc 780
ttgtaagagc taatgtcatt gtaagattta aaactaaggg cttttatcac tttgcaaatt 840
atTTTTTaaa tgcattcatc atttgacagt gttctctcat ttottaaaat gcgagtcato 900
ttccaaaaga gttgttttta actgccctaa acatttttgg ggaagtatgc agggtttaaa 960
ttttaagta taattagttc tgaattaaaa tatgcacatg gaacttgtct ggcagactga 1020
tgcaatagta aaacaactgc agaattacta ttaatgtaaa caatccattt gaaagtcaat 1080
cagctgctcc cattaaaata ttatttaaaa tacaataccc acagcatcta actaaatcct 1140
caggatttat tctccgggag aaattatccc ttctaggaa aatgaagtta tttctggttt 1200
taattcatal aatactttta gaaaatctgt taaatataac aaaacacaag ctagatgctt 1260
aagaaatgct taaagaaata ttggggcgaa ggtaacagca gtcaacagga ttgtggccat 1320
tactggctct attattttga tgtaccatgg aaggcacaga aatcgagcaa ggaagaaaat 1380
attagttatt ttgatctaca tctttttcta aagaaaagtg gagcttgcct ccagttcaat 1440
tcacaagagc attttccctc ccattgccac cttttcttgt ggctgtcgtc aggaaggatg 1500
cagaggctgt gtggtttacc aaatgcctta acttagcagt gaatgacaac tgtcaaacac 1560
atgttgaggg aaaattttta ctgattcaca aaaaggaaga cagtttgccc actcttagtg 1620
gcacaaatca aagctgcatg cactacatta tccaaattag tcgtaaccaa atagttaaaa 1680
aattctgctg ggcacggtgg ctcatacctg taatcccagc actttgggag gccgaggcag 1740
ttggatcacc tgaggttagg agtttgagac cagcctggcc aacagggtga aaccctgtct 1800
cgtctaaaaa tacaaaaatt agccgggctt ggtggtgcat gcctgtagtc ccagggtactc 1860
aggaggctga ggcaggagaa tcacttgaac ccgagggtgg gcaggcggag gttgcagtaa 1920
gccaagatcg cgccattgca ctctagccta ggtgacagag tgagactcca tctc 1974

```

<210> 10474  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 10474

Met	Ala	Ala	Pro	Pro	Glu	Pro	Gly	Glu	Pro	Glu	Glu	Arg	Lys	Ser	Leu
1				5				10						15	
Lys	Leu	Leu	Gly	Phe	Leu	Asp	Val	Glu	Asn	Thr	Pro	Cys	Ala	Arg	His
			20					25					30		
Ser	Ile	Leu	Tyr	Gly	Ser	Leu	Gly	Ser	Val	Val	Ala	Gly	Phe	Gly	His
		35					40					45			
Phe	Leu	Phe	Thr	Ser	Arg	Ile	Arg	Arg	Ser	Cys	Asp	Val	Gly	Val	Gly
		50				55					60				
Gly	Phe	Ile	Leu	Val	Thr	Leu	Gly	Cys	Trp	Phe	His	Cys	Arg	Tyr	Asn
		65			70				75						80
Tyr	Ala	Lys	Gln	Arg	Ile	Gln	Glu	Arg	Ile	Ala	Arg	Glu	Glu	Ile	Lys
			85					90						95	
Lys	Lys	Ile	Leu	Tyr	Glu	Gly	Thr	His	Leu	Asp	Pro	Glu	Arg	Lys	His
			100					105					110		
Asn	Gly	Ser	Ser	Ser	Asn										
			115												

09629469.072800

<210> 10475  
<211> 1535  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (4).. (1533)

<400> 10475

```

aagatggctg cgcctaccgg tgcggtggca gcctcggccg cctcgggtca ggcggaaggt 60
aaaaagatca ccgatctgcg ggtcatcgat ctgaagtccg agctgaagcg gcggaactta 120
gacatcaccg gagtcaagac cgtgctcatc tcccgactca agcaggctat tgaagaggaa 180
ggaggcgatc cagataatat tgaattaaact gtttcaactg atactccaaa caagaaacca 240
actaaaggca aaggtaaaaa acatgaagca gatgagttga gtggagatgc ttctgtggaa 300
gatgatgctt ttatcaagga ctgtgaattg gagaatcaag aggcacatga gcaagatgga 360
aatgatgaac taaaggactt tgaagaattt ggtgaaaatg aagaagaaaa tgtgcattcc 420
aaggagtac tctctgcaga agaaaaacaag agagctcatg aattaataga ggcagaagga 480
atagaagata tagaaaaaga ggacatcgaa agtcaggaaa ttgaagctca agaaggtgaa 540
gatgatacct ttctaacagc ccaagatggg gaggaagaag aaaatgagaa agatatagca 600
ggttctggtg atggtacaca agaagtatct aaacctcttc cttcagaagg gagcctagct 660
gaggctgata acacagctca tgaagagatg gaagctcata cgactgtgaa agaagctgag 720
gatgacaaca tctcggtcac aatccaggct gaagatgcca tcaactctgga ttttgatggg 780
gatgacctcc tagaaacagg taaaaatgtg aaaattacag attctgaagc aagtaagcca 840
aaagatgggc aggacgccat tgcacagagc ccggagaagg aaagcaagga ttatgagatg 900
aatgcgaacc ataaagatgg taagaaggaa gactgcgtga agggtgaccc tgtcgagaag 960
gaagccagag aaagttctaa gaaagcagaa tctggagaca aagaaaagga tactttgaag 1020
aaagggccct cgtctactgg ggctcttggt caagcaaaga gctcttcaaa ggaatctaaa 1080
gacagcaaga catcatctaa agatgacaaa ggaagtacaa gtagtactag tggtagcagt 1140
ggaagctcaa ctaaaaatat ctgggttagt ggactttcat ctaataccaa agctgctgat 1200
ttgaagaacc tctttggcaa atatggaaag gttctgagtg caaaagtagt taaaaatgct 1260
cgaagtcctg gggcaaaatg ctatggcatt gtaactatgt cttcaagcac agaggtgtcc 1320
aggtgtattg cacatcttca tcgcactgag ctgcatggac agctgatttc tgttgaaaaa 1380
gtaaaagggtg atccctctaa gaaagaaatg aagaaagaaa atgatgaaaa gagtagttca 1440
agaagttctg gagataaaaa aaatacgagt gatagaagta gcaagacaca agcctctgtc 1500
aaaaaagaag agaaaagatc gtctgagaaa tctgt

```

<210> 10476  
<211> 510  
<212> PRT  
<213> Homo sapiens

<400> 10476

```

Met Ala Ala Ala Thr Gly Ala Val Ala Ala Ser Ala Ala Ser Gly Gln
  1                      5                      10                      15

```





<210> 10477  
<211> 1973  
<212> DNA  
<213> Homo sapiens

<400> 10477						
acccatctac	agcaagaaga	cggaaatcca	aaggcagaca	gtacgggctc	ccttcgccaa	60
actcttcatt	ttctctgcac	ttcaggtggc	aagacagctc	cttcttcagc	agcaacagca	120
gcagcaagtt	agtggattaa	aatctcccaa	gaggaatgac	aaacaaccag	ctcttcaggt	180
tcccggtgca	gtggctatga	tgacacctca	agttatcact	ccccagcaaa	tgacgcagat	240
cctccagcaa	caagtgttga	gcccctcagca	gctccaggtt	ctcctccagc	agcagcaggc	300
cctcatgctt	caacagcagc	agcttcaaga	gttttataaa	aaacaacagg	aacagttgca	360
gcttcaactt	ttacaacaac	aacatgcttg	aaaacagcct	aaagagcaac	agcgggtggc	420
taccagcag	ttggcttttc	agcagcagct	tttacagatg	cagcagttac	agcagcagca	480
cctcctgtct	ttgcagcgcc	aaggccttgt	gacaattcag	cccgggcagc	ctgcccttcc	540
cottcaacct	cttgctcaag	gcatgattcc	aacagaactg	cagcagctct	ggaaagaagt	600
gacaagtgtc	catactgcag	aagaaaccac	aggcaacaat	cacagcagtt	tggatctgac	660
cacgacatgt	gtctcctcct	ctgcaccttc	caagacctcc	ttaataatga	accacatgc	720
ctctaccaat	ggacagctct	cagtcacac	tcccaaaagg	gaaagtttgt	cccatgagga	780
gcacccccat	agccatcctc	tctatggaca	tgggtgatgc	aagtggccag	gctgtgaagc	840
agtgtgcgaa	gatttccaat	cattttctaaa	acatctcaac	agtgagcatg	cgctggacga	900
tagaagtaca	gccaatgtat	gagtacaaat	gcaggttgta	cagcagttag	agctacagct	960
tgcaaaagac	aaagaacgcc	tgcaagccat	gatgaccac	ctgcatgtga	agtctacaga	1020
acccaaagcc	gcccctcagc	ccttgaatct	ggtatcaagt	gtcactctct	ccaagtccgc	1080
atcggaggct	tctccacaga	gcttacctca	tactccaacg	accccaaccg	ccccctgac	1140
tcccgtcacc	caaggcccct	ctgtcatcac	aaccaccagc	atgcacacgg	tgggacccat	1200
ccgcaggcgg	tactcagaca	aataacaacgt	gccattttcg	tcagcagata	ttgcgcagaa	1260
ccaagaattt	tataagaacg	cagaagttag	accaccattt	acatatgcat	ctttaattag	1320

```
gcaggccatt ctcgaatctc cagaaaagca gctaacacta aatgagatct ataactgggtt 1380
cacacgaatg tttgcttact tccgacgcaa cgcggccacg tggaagaatg cagtgcgtca 1440
taatcttagt cttcacaagt gttttgtgcg agtagaaaac gttaaagggg cagtatggac 1500
agtggatgaa gtagaattcc aaaaacgaag gccacaaaag atcagtggta acccttcctt 1560
tattaaaaac atgcagagca gccacgccta ctgcacacct ctcaatgcag ctttacaggc 1620
ttcaatggct gagaatagta tacctctata cactaccgct tccatgggaa atcccactct 1680
gggcaactta gccagcgcaa tacgggaaga gctgaacggg gcaatggagc ataccaacag 1740
caacgagagt gacagcagtc caggcagatc tcctatgcaa gccgtgcac ctgtacacgt 1800
caaagaagag cccctcgatc cagaggaagc tgaagggccc ctgtccttag tgacaacagc 1860
caaccacagt ccagattttg accatgacag agattacgaa gatgaaccag taaacgagga 1920
catggagtga ctatcggggc gggccaaccc cgagaatgaa gattggaaaa agg 1973
```

<210> 10478  
 <211> 577  
 <212> PRT  
 <213> Homo sapiens

<400> 10478

Met	Met	Thr	Pro	Gln	Val	Ile	Thr	Pro	Gln	Gln	Met	Gln	Gln	Ile	Leu
1				5				10						15	
Gln	Gln	Gln	Val	Leu	Ser	Pro	Gln	Gln	Leu	Gln	Val	Leu	Leu	Gln	Gln
			20					25					30		
Gln	Gln	Ala	Leu	Met	Leu	Gln	Gln	Gln	Leu	Gln	Glu	Phe	Tyr	Lys	
		35					40				45				
Lys	Gln	Gln	Glu	Gln	Leu	Gln	Leu	Leu	Leu	Gln	Gln	Gln	His	Ala	
	50				55			60							
Gly	Lys	Gln	Pro	Lys	Glu	Gln	Gln	Arg	Val	Ala	Thr	Gln	Gln	Leu	Ala
65					70			75						80	
Phe	Gln	Gln	Gln	Leu	Leu	Gln	Met	Gln	Gln	Leu	Gln	Gln	Gln	His	Leu
				85				90						95	
Leu	Ser	Leu	Gln	Arg	Gln	Gly	Leu	Val	Thr	Ile	Gln	Pro	Gly	Gln	Pro
			100					105					110		
Ala	Leu	Pro	Leu	Gln	Pro	Leu	Ala	Gln	Gly	Met	Ile	Pro	Thr	Glu	Leu
		115					120					125			
Gln	Gln	Leu	Trp	Lys	Glu	Val	Thr	Ser	Ala	His	Thr	Ala	Glu	Glu	Thr
	130					135					140				
Thr	Gly	Asn	Asn	His	Ser	Ser	Leu	Asp	Leu	Thr	Thr	Thr	Cys	Val	Ser
145				150				155						160	
Ser	Ser	Ala	Pro	Ser	Lys	Thr	Ser	Leu	Ile	Met	Asn	Pro	His	Ala	Ser
			165					170					175		
Thr	Asn	Gly	Gln	Leu	Ser	Val	His	Thr	Pro	Lys	Arg	Glu	Ser	Leu	Ser
			180					185					190		
His	Glu	Glu	His	Pro	His	Ser	His	Pro	Leu	Tyr	Gly	His	Gly	Val	Cys
	195						200				205				
Lys	Trp	Pro	Gly	Cys	Glu	Ala	Val	Cys	Glu	Asp	Phe	Gln	Ser	Phe	Leu
	210					215					220				
Lys	His	Leu	Asn	Ser	Glu	His	Ala	Leu	Asp	Asp	Arg	Ser	Thr	Ala	Gln

00629469.072800

-3981/13211-

225 230 235 240  
Cys Arg Val Gln Met Gln Val Val Gln Gln Leu Glu Leu Gln Leu Ala  
245 250 255  
Lys Asp Lys Glu Arg Leu Gln Ala Met Met Thr His Leu His Val Lys  
260 265 270  
Ser Thr Glu Pro Lys Ala Ala Pro Gln Pro Leu Asn Leu Val Ser Ser  
275 280 285  
Val Thr Leu Ser Lys Ser Ala Ser Glu Ala Ser Pro Gln Ser Leu Pro  
290 295 300  
His Thr Pro Thr Thr Pro Thr Ala Pro Leu Thr Pro Val Thr Gln Gly  
305 310 315 320  
Pro Ser Val Ile Thr Thr Ser Met His Thr Val Gly Pro Ile Arg  
325 330 335  
Arg Arg Tyr Ser Asp Lys Tyr Asn Val Pro Ile Ser Ser Ala Asp Ile  
340 345 350  
Ala Gln Asn Gln Glu Phe Tyr Lys Asn Ala Glu Val Arg Pro Pro Phe  
355 360 365  
Thr Tyr Ala Ser Leu Ile Arg Gln Ala Ile Leu Glu Ser Pro Glu Lys  
370 375 380  
Gln Leu Thr Leu Asn Glu Ile Tyr Asn Trp Phe Thr Arg Met Phe Ala  
385 390 395 400  
Tyr Phe Arg Arg Asn Ala Ala Thr Trp Lys Asn Ala Val Arg His Asn  
405 410 415  
Leu Ser Leu His Lys Cys Phe Val Arg Val Glu Asn Val Lys Gly Ala  
420 425 430  
Val Trp Thr Val Asp Glu Val Glu Phe Gln Lys Arg Arg Pro Gln Lys  
435 440 445  
Ile Ser Gly Asn Pro Ser Leu Ile Lys Asn Met Gln Ser Ser His Ala  
450 455 460  
Tyr Cys Thr Pro Leu Asn Ala Ala Leu Gln Ala Ser Met Ala Glu Asn  
465 470 475 480  
Ser Ile Pro Leu Tyr Thr Thr Ala Ser Met Gly Asn Pro Thr Leu Gly  
485 490 495  
Asn Leu Ala Ser Ala Ile Arg Glu Glu Leu Asn Gly Ala Met Glu His  
500 505 510  
Thr Asn Ser Asn Glu Ser Asp Ser Ser Pro Gly Arg Ser Pro Met Gln  
515 520 525  
Ala Val His Pro Val His Val Lys Glu Glu Pro Leu Asp Pro Glu Glu  
530 535 540  
Ala Glu Gly Pro Leu Ser Leu Val Thr Thr Ala Asn His Ser Pro Asp  
545 550 555 560  
Phe Asp His Asp Arg Asp Tyr Glu Asp Glu Pro Val Asn Glu Asp Met  
565 570 575  
Glu

<210> 10479

09629469.072800

<211> 1718  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (252).. (1718)

<400> 10479

```

aggaagtaga acgccggctc gcatgcctgc ccgcccgcga gcctgccggg tacggccttt 60
tccgccgggg cttccaggtc aaagaattcg cctttgccgc taccgcttcc ttaccctccg 120
caccgcgtta gttctccggg cgggcggcag tctctgaaca cttagccgcg ccatccgggg 180
tcacaccgcc tggaaggagg tgacgggggc ggccgggggc goggacactc cccgctgaga 240
gtccgcctgc catggactcg gaattattaca gggcgagcca gtcagatgat ggtgggtgcta 300
ccccagtaca ggatgaacgg gattcagggt cagacgggtga ggatgatgta aatgagcaac 360
actccggatc agacactgga agtgtagaac gtcattcaga gaatgaaact agtgactcag 420
aaaatgaaga gcttcccaaa ccccgaaatca gtgattcggg aagtgaggat cccccaagga 480
accaggccag tgattcggaa aatgaggagc taccaaaacc ccgagtcagt gactctgaga 540
gtgaggggcc tcagaagggg cctgccagtg actcagaaac tgaggatgcg tccagacaca 600
aacagaagcc agagtcagat gatgacagcg acagggagaa taagggagag gatacagaaa 660
tgcagaatga ctcttccat tcagacagcc atatggacag aaaaaagttt cacagtctctg 720
atagttagga ggaagaacac aaaaagcaaa aaatggacag tgatgaagat gaaaaagagg 780
gtgaggagga gaaagtagcg aagagaaaag ctgctgtgct ttctgatagt gaagatgaag 840
agaaaagcatc agcaaagaag agtcgtgttg tctctgatgc agatgactct gacagtgatg 900
ctgtatcaga caagtcaggc aaaagagaga agaccatagc atctgacagt gaggaagaag 960
ctgggaaaga attgtctgat aagaaaaatg aagagaagga totgtttggg agtgacagtg 1020
agtcaggcaa tgaagaagaa aatcttattg cagacatatt tggagaatct ggtgatgaag 1080
aggaagaaga atttacaggt ttttaaccaag aagatctgga agaagaaaaa ggtgaaacac 1140
aggtaaaaga agcagaagat tcagattctg atgataacat aaagagagga aaacatatgg 1200
actttctgtc agattttggg atgatgttgc agcgaaaaaa gagcatgagt ggcaagcgca 1260
gacggaaccg cgatggtggc acctttatta gtgatgcaga cgacgtctgt agtgccatga 1320
tcgtcaagat gaatgaagct gctgaggaag acagacagtt gaacaatcaa aaaaagccag 1380
cactgaaaaa attaaactta ctgcctgctg tagttatgca cottaagaag caggacctta 1440
aagaaacatt cattgacagt ggtgtgatgt ctgccatcaa agaatggctc tcacctctac 1500
cagataggag tttgcctgca ctcaagatcc gggaggagct gctgaagatc ctgcaagagc 1560
tgcctagtgt gagccaggag accctgaagc atagtgggat tggacgagca gtgatgtatc 1620
tctataaaca cccaaggag tcaaggtcta acaaggacat ggcagggaaa ttaatcaatg 1680
agtgtcttag gcctatattt ggtcttacct caaactac 1718

```

<210> 10480  
<211> 489  
<212> PRT  
<213> Homo sapiens

<400> 10480

```

Met Asp Ser Glu Tyr Tyr Ser Gly Asp Gln Ser Asp Asp Gly Gly Ala
  1                      5                      10                      15

```



-3984/13211-

Ile Asp Ser Gly Val Met Ser Ala Ile Lys Glu Trp Leu Ser Pro Leu  
                    405                    410                    415  
Pro Asp Arg Ser Leu Pro Ala Leu Lys Ile Arg Glu Glu Leu Leu Lys  
                    420                    425                    430  
Ile Leu Gln Glu Leu Pro Ser Val Ser Gln Glu Thr Leu Lys His Ser  
                    435                    440                    445  
Gly Ile Gly Arg Ala Val Met Tyr Leu Tyr Lys His Pro Lys Glu Ser  
                    450                    455                    460  
Arg Ser Asn Lys Asp Met Ala Gly Lys Leu Ile Asn Glu Trp Ser Arg  
465                    470                    475                    480  
Pro Ile Phe Gly Leu Thr Ser Asn Tyr  
                    485

<210> 10481  
<211> 1479  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (142).. (654)

<400> 10481  
agcctacacc gactctggag gaagactgga gcctttgcgg cggcgctgcc cctccccctgg 60  
tccccgcgag ctcgaggagg cccggctggtg ctgcggggggc cccggggagcg tgcttctgtt 120  
cttcaagatt gaaaactaag catgggggaag agctgcaagg tggctcgtgtg tggccaggcg 180  
tctgtgggca aaacttcaat cctgggagcag cttctgtatg ggaaccatgt agtgggttcg 240  
gagatgatcg agacgcagga ggacatctac gtgggctcca ttgagacaga ccgggggggtg 300  
cgagagcagg tgcgtttcta tgacaccggg gggctccggg atggggccga actgccccga 360  
cactgcttct cttgactga tggctacgtc ctggctctata gcacagatag cagagagtct 420  
tttcagcgtg tggagctgct caagaaggag attgacaaat ccaaggacaa gaaggaggtc 480  
accatcgtgg tccttggcaa caagtgtgac ttacaggagc agcggcgtgt agaccagag 540  
caagtctgcc ttccccctca gccggaagaa caagggcagc ggctccttgg atggctgaag 600  
agctgccgtt cctctttcac gatcccagcc ccatttcagt gtctggggct ctggtagatg 660  
tgttgagggc aaagtagagg acaagctgtc tttcccagtc agccaggag ctccccgcca 720  
ggccacgccc cagccacttt gctccctctc acctctggga agtgcaaata ctcttggtt 780  
acatccccct cctcagccct cccagcctac tccccatccc agcttttaga ggatctgctc 840  
cactgtctcc tggggcagtt gtgggtcact gtcccttcca gctgccccag acaggaagca 900  
gagtcaccac gcagcagtgt cccttcttgg gtctgagttc ctattatagg taggggcccc 960  
accctctggg ctccccatca gcgacacaca cacacttatg gcaccagcct ggactccaga 1020  
aaaagggtgt ccaggtattg tgtgtatgca tttagttgtg cacacacaaa tatgtccta 1080  
tactggcatt aggcgtctcc tcatccctca ccctgacctt tctcctgtcc ttttcttggc 1140  
tggaagaagt tggcctcctg ggagtgtagt tttctgtttt aaatcccca cccctggctg 1200  
ggctcagtgg ctcaccctg taatcccagc actttgggag gccaaggcgg gtcgattact 1260  
tgaggtcagg agttcacgac cagcctggcc aacattgtga aaccccatct ctgccaaaaa 1320  
tacaaaagtt agccgggcgt agtggcacat gcctgtaatc ccagctacct ggggaggctg 1380  
aggcaggaga attgcttgaa ctcagaaggc ggaggctgca gtgagccgag atcgtgccac 1440

00629469.072800

tgcaactccag cctggtcaac agagcaagac tccatctcg

1479

<210> 10482  
<211> 171  
<212> PRT  
<213> Homo sapiens

<400> 10482  
Met Gly Lys Ser Cys Lys Val Val Val Cys Gly Gln Ala Ser Val Gly  
1 5 10 15  
Lys Thr Ser Ile Leu Glu Gln Leu Leu Tyr Gly Asn His Val Val Gly  
20 25 30  
Ser Glu Met Ile Glu Thr Gln Glu Asp Ile Tyr Val Gly Ser Ile Glu  
35 40 45  
Thr Asp Arg Gly Val Arg Glu Gln Val Arg Phe Tyr Asp Thr Arg Gly  
50 55 60  
Leu Arg Asp Gly Ala Glu Leu Pro Arg His Cys Phe Ser Cys Thr Asp  
65 70 75 80  
Gly Tyr Val Leu Val Tyr Ser Thr Asp Ser Arg Glu Ser Phe Gln Arg  
85 90 95  
Val Glu Leu Leu Lys Lys Glu Ile Asp Lys Ser Lys Asp Lys Lys Glu  
100 105 110  
Val Thr Ile Val Val Leu Gly Asn Lys Cys Asp Leu Gln Glu Gln Arg  
115 120 125  
Arg Val Asp Pro Glu Gln Val Cys Leu Pro Pro Gln Pro Glu Glu Gln  
130 135 140  
Gly Gln Arg Leu Leu Gly Trp Leu Lys Ser Cys Arg Ser Ser Phe Thr  
145 150 155 160  
Ile Pro Ala Pro Phe Gln Cys Leu Gly Leu Trp  
165 170

<210> 10483  
<211> 1739  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (166).. (1629)

<400> 10483  
gcttctccgg cggaacccag gctggaccgc gggccccggc ctggggggcca ctgctgccac 60  
cgccgccgcc acctcgtctc ctccccgtcc ccgcccagcc ccagggtotcc ccgcctcact 120  
cgggccccgtg gccgggggtca ctccccgcgc cccctccccg cacggatgcc gaaggatgaag 180  
gcgctgcagt gcgccctggc gctggagatc agctcagtaa cttgcccagg agtcgtgctt 240  
aaagacaaag aggacatcta tcttagcatc tgttgttttg gccaatataa aaagacacaa 300

000220'69462960



tgtgtcccag ccacttttcc cctgggtcttc aatgccagaa tgggtgtttga aaaggtgttc 360  
 ccggacgcag tagatcctgg agatgtgggt acacagcttg aatatgatac agcagtgttc 420  
 gagttgatac agctagttcc accagtgggt gaaacactgt ctacgtatga cgaaaataca 480  
 cgagatttca tgtttccggg tccaaaccaa atgtctggac accatgattc aaaccgccag 540  
 gttaccatga ggaggatttc tggccttcga ggaaatgctc caaggctgga attttctacg 600  
 acttcagtga ttactgaatg tctgataagt tcaaggaaat gccacactca ggataaattt 660  
 atttaccatt tggctccagt tgaaaaatca catggcagac tgcaaaacag aacatcaaga 720  
 tcacaaaaga aaaaatccaa gtcacctgag agaagtaaat actgtataaa tgcaaaaaac 780  
 tacgaacagc ctacaatttc ttcaaaatca cactctccat ctccctacac aaaaagacgc 840  
 atgtgtgagc tatctgaaga caccaggcgg cggctggccc atttaaattc gggaccctat 900  
 gagttcaaaa aagaaacaga taaacctcca tttgtgatta gacatgttga tcccccaagt 960  
 cccagggtcg atacctttatt gggatcttct ggaagagact gtgaaagaga tggatgggtca 1020  
 aggggtgcaca atgatcattc tcatcttggc tgctgccgac ccaaggatta taaggttatt 1080  
 aggacacccc atgggagaga cttcgatgac tctttagaaa aatgtgaaga gtatttgagc 1140  
 ccaaggtcgt gtagtaagcc ccggcattca gcgaggacct tgctagtcca ttcagcaccc 1200  
 tcaacaatgc caaagcattc tccaagccct gtgttaaata gagcttctct cagggaaga 1260  
 tttcattctg attgggtgttc accttcaaac tgcgatgaga tccatgaccg ggtaaaaaat 1320  
 gtcttgaaaat cacatcaggc tcatcaaaga catttatatg atgagagaga cctagagaaa 1380  
 gatgatgaac tggaactgaa aagaagtctt ttatgtagag actctgccta tgacagtgc 1440  
 cccgagtata gctcatgtca gcagccacgt ggcactttcc atttggatga cggatgaatac 1500  
 tggccaaca gggcagcctc ttataaggga aaatcccacc gaccatctt tgagaacagc 1560  
 atggacaaga tgtacaggaa cttatacaaa aaggcctgta gttctgcttc acatacacag 1620  
 gaaagcttct gagaccatcc atgataaacc tcattagtgt cagtgtcaat ttotcaatga 1680  
 aaatgtttga tgtgatcaat atctgtattc ctttttttaa aaaaaatggg attataact 1739

<210> 10484  
 <211> 488  
 <212> PRT  
 <213> Homo sapiens

<400> 10484  
 Met Pro Lys Val Lys Ala Leu Gln Cys Ala Leu Ala Leu Glu Ile Ser  
 1 5 10 15  
 Ser Val Thr Cys Pro Gly Val Val Leu Lys Asp Lys Glu Asp Ile Tyr  
 20 25 30  
 Leu Ser Ile Cys Val Phe Gly Gln Tyr Lys Lys Thr Gln Cys Val Pro  
 35 40 45  
 Ala Thr Phe Pro Leu Val Phe Asn Ala Arg Met Val Phe Glu Lys Val  
 50 55 60  
 Phe Pro Asp Ala Val Asp Pro Gly Asp Val Val Thr Gln Leu Glu Tyr  
 65 70 75 80  
 Asp Thr Ala Val Phe Glu Leu Ile Gln Leu Val Pro Pro Val Gly Glu  
 85 90 95  
 Thr Leu Ser Thr Tyr Asp Glu Asn Thr Arg Asp Phe Met Phe Pro Gly  
 100 105 110  
 Pro Asn Gln Met Ser Gly His His Asp Ser Asn Arg Gln Val Thr Met  
 115 120 125

008220 6946296

-3987/13211-

Arg Arg Ile Ser Gly Leu Arg Gly Asn Ala Pro Arg Leu Glu Phe Ser  
130 135 140  
Thr Thr Ser Val Ile Thr Glu Cys Leu Ile Ser Ser Arg Lys Cys His  
145 150 155 160  
Thr Gln Asp Lys Phe Ile Tyr His Leu Ala Pro Val Glu Lys Ser His  
165 170 175  
Gly Arg Leu Gln Asn Arg Thr Ser Arg Ser Gln Lys Lys Lys Ser Lys  
180 185 190  
Ser Pro Glu Arg Ser Lys Tyr Cys Ile Asn Ala Lys Asn Tyr Glu Gln  
195 200 205  
Pro Thr Ile Ser Ser Lys Ser His Ser Pro Ser Pro Tyr Thr Lys Arg  
210 215 220  
Arg Met Cys Glu Leu Ser Glu Asp Thr Arg Arg Arg Leu Ala His Leu  
225 230 235 240  
Asn Leu Gly Pro Tyr Glu Phe Lys Lys Glu Thr Asp Lys Pro Pro Phe  
245 250 255  
Val Ile Arg His Val Asp Pro Pro Ser Pro Arg Ala Asp Thr Leu Leu  
260 265 270  
Gly Ser Ser Gly Arg Asp Cys Glu Arg Asp Gly Trp Ser Arg Val His  
275 280 285  
Asn Asp His Ser His Leu Gly Cys Cys Arg Pro Lys Asp Tyr Lys Val  
290 295 300  
Ile Arg Thr Pro His Gly Arg Asp Phe Asp Asp Ser Leu Glu Lys Cys  
305 310 315 320  
Glu Glu Tyr Leu Ser Pro Arg Ser Cys Ser Lys Pro Arg His Ser Ala  
325 330 335  
Arg Thr Leu Leu Val His Ser Ala Pro Ser Thr Met Pro Lys His Ser  
340 345 350  
Pro Ser Pro Val Leu Asn Arg Ala Ser Leu Arg Glu Arg Phe His Ser  
355 360 365  
Asp Trp Cys Ser Pro Ser Asn Cys Asp Glu Ile His Asp Arg Val Lys  
370 375 380  
Asn Val Leu Lys Ser His Gln Ala His Gln Arg His Leu Tyr Asp Glu  
385 390 395 400  
Arg Asp Leu Glu Lys Asp Asp Glu Leu Glu Leu Lys Arg Ser Leu Leu  
405 410 415  
Cys Arg Asp Ser Ala Tyr Asp Ser Asp Pro Glu Tyr Ser Ser Cys Gln  
420 425 430  
Gln Pro Arg Gly Thr Phe His Leu Asp Asp Gly Glu Tyr Trp Ser Asn  
435 440 445  
Arg Ala Ala Ser Tyr Lys Gly Lys Ser His Arg Pro Ile Phe Glu Asn  
450 455 460  
Ser Met Asp Lys Met Tyr Arg Asn Leu Tyr Lys Lys Ala Cys Ser Ser  
465 470 475 480  
Ala Ser His Thr Gln Glu Ser Phe  
485

000220" 69462960

<210> 10485  
<211> 1873  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (32).. (1873)

<400> 10485

```

atagagaaga acggaggtac ggccctgtggt catggcgctg ttcccagcct ttgcggggct 60
tagtgaggct cccgatggcg ggagctccag gaaagagtta gactggctga gcaacccaag 120
cttttgtgtt ggatccataa cgtccctgag ccaacaaact gaagcagctc cagcccatgt 180
ttctgaaggg ttaccgctga caaggagtca tctgaaatca gagtottcag atgaaagtga 240
cactaacaaa aagctcaaac aaacaagtag aaaaaagaag aaagagaaaa agaaaaaaag 300
gaagcatcag catcataaga aaacaaagag gaagcatggg ccgtcgagta gcagcaggtc 360
tgagacagac accgattctg gaaaggacaa accttccaga ggcttgagg gcagtaaaaa 420
ggaatctgag gaaccgaatc aaggaaataa tgctgcagct gatactggac atcgctttgt 480
ttggcttgag gacattcagg ctgtgacggg agaaaccttc agaacagata agaaaccaga 540
tcctgcgaac tgggagtaca agtctctcta ccgaggggat atagcaagat acaagaggaa 600
aggagactcc tgccttggca ttaaccctaa gaagcagtgc atatcttggg aagggaacttc 660
cacagagaag aagcattcac gcaagcaggt tgaacgctat tttactaaga agagtgtggg 720
attaatgaac atcgatggag ttgccattag cagtaaaact gaacctccct catctgagcc 780
catctccttt ataccagtga aggacttggg agatgcggct cctgttacaa cctggttgaa 840
tcctctgggg atttatgatc agtcaaccac acattggcta caaggacagg gtcctccaga 900
gcaggaatca aagcagccag acgcacagcc agacagcgag agtgcggctc tcaaggccaa 960
gggtggaggag tttaacagga gggtgcggga gaatcctcgg gatacgcagc tgtggatggc 1020
atttgttgct tttcaggacg aggtcatgaa aagtcctggc ctgtatgcca tcgaggaagg 1080
agagcaggaa aagcgaaagg ggtccctgaa gctcattctg gagaagaagc tggccattct 1140
ggagcggggc attgagagca accagagcag tgtggatctg aaactggcca agctgaagct 1200
ctgcacagag ttctgggagc cctccactct ggtcaaagag tggcagaaac tgatattttt 1260
gcatcccaat aatacagccc tttggcagaa atacctttta ttttgccaga gccagtttag 1320
taccttttcg atatcaaaaa ttcacagtct ttatggaaaa tgcttgagca ctttgtctgc 1380
tgtaaggac ggcagcatct tatctcacc tgctgtgctt ggcaagggaag aggccatgtt 1440
tgcaactctt cttcagcagt gccactttct gcggcaggct ggccactctg agaaggccat 1500
ctcattgttc caggccatgg tggacttcac ctcttcaaaa cccgacagcg taaaagatct 1560
gcctacaaaa ggacagggtg aattctttga acccttttgg gacagtggag agccccgggc 1620
tggggagaag ggagcccag gctggaaggc gtggatgcac cagcaggaac gaggtggctg 1680
gggtggtcatc aaccagatg aggatgacga tgaaccagaa gaggatgacc aggaaataaa 1740
agataaagact ctgcccaggt ggcagatctg gcttgctgct gagcgttccc gtgaccagag 1800
gcactggcgg ccctggcgcc ctgataagac caagaagcaa accgaggaag actgtgagga 1860
tcccagagaga cag
1873

```

<210> 10486  
<211> 614  
<212> PRT  
<213> Homo sapiens

09629469.072800

<400> 10486

Met	Ala	Leu	Phe	Pro	Ala	Phe	Ala	Gly	Leu	Ser	Glu	Ala	Pro	Asp	Gly
1				5					10					15	
Gly	Ser	Ser	Arg	Lys	Glu	Leu	Asp	Trp	Leu	Ser	Asn	Pro	Ser	Phe	Cys
			20					25					30		
Val	Gly	Ser	Ile	Thr	Ser	Leu	Ser	Gln	Gln	Thr	Glu	Ala	Ala	Pro	Ala
		35					40					45			
His	Val	Ser	Glu	Gly	Leu	Pro	Leu	Thr	Arg	Ser	His	Leu	Lys	Ser	Glu
	50					55					60				
Ser	Ser	Asp	Glu	Ser	Asp	Thr	Asn	Lys	Lys	Leu	Lys	Gln	Thr	Ser	Arg
65					70					75					80
Lys	Lys	Lys	Lys	Glu	Lys	Lys	Lys	Lys	Arg	Lys	His	Gln	His	His	Lys
				85					90					95	
Lys	Thr	Lys	Arg	Lys	His	Gly	Pro	Ser	Ser	Ser	Ser	Arg	Ser	Glu	Thr
			100				105						110		
Asp	Thr	Asp	Ser	Gly	Lys	Asp	Lys	Pro	Ser	Arg	Gly	Val	Gly	Gly	Ser
		115					120					125			
Lys	Lys	Glu	Ser	Glu	Glu	Pro	Asn	Gln	Gly	Asn	Asn	Ala	Ala	Ala	Asp
130						135					140				
Thr	Gly	His	Arg	Phe	Val	Trp	Leu	Glu	Asp	Ile	Gln	Ala	Val	Thr	Gly
145					150					155					160
Glu	Thr	Phe	Arg	Thr	Asp	Lys	Lys	Pro	Asp	Pro	Ala	Asn	Trp	Glu	Tyr
			165						170					175	
Lys	Ser	Leu	Tyr	Arg	Gly	Asp	Ile	Ala	Arg	Tyr	Lys	Arg	Lys	Gly	Asp
			180					185					190		
Ser	Cys	Leu	Gly	Ile	Asn	Pro	Lys	Lys	Gln	Cys	Ile	Ser	Trp	Glu	Gly
		195					200					205			
Thr	Ser	Thr	Glu	Lys	Lys	His	Ser	Arg	Lys	Gln	Val	Glu	Arg	Tyr	Phe
		210				215					220				
Thr	Lys	Lys	Ser	Val	Gly	Leu	Met	Asn	Ile	Asp	Gly	Val	Ala	Ile	Ser
225					230					235					240
Ser	Lys	Thr	Glu	Pro	Pro	Ser	Ser	Glu	Pro	Ile	Ser	Phe	Ile	Pro	Val
			245						250					255	
Lys	Asp	Leu	Glu	Asp	Ala	Ala	Pro	Val	Thr	Thr	Trp	Leu	Asn	Pro	Leu
		260						265					270		
Gly	Ile	Tyr	Asp	Gln	Ser	Thr	Thr	His	Trp	Leu	Gln	Gly	Gln	Gly	Pro
		275					280					285			
Pro	Glu	Gln	Glu	Ser	Lys	Gln	Pro	Asp	Ala	Gln	Pro	Asp	Ser	Glu	Ser
	290					295					300				
Ala	Ala	Leu	Lys	Ala	Lys	Val	Glu	Glu	Phe	Asn	Arg	Arg	Val	Arg	Glu
305					310					315					320
Asn	Pro	Arg	Asp	Thr	Gln	Leu	Trp	Met	Ala	Phe	Val	Ala	Phe	Gln	Asp
			325						330					335	
Glu	Val	Met	Lys	Ser	Pro	Gly	Leu	Tyr	Ala	Ile	Glu	Glu	Gly	Glu	Gln
		340						345					350		
Glu	Lys	Arg	Lys	Gly	Ser	Leu	Lys	Leu	Ile	Leu	Glu	Lys	Lys	Leu	Ala
		355					360					365			

09629469.072800

-3990/13211-

Ile	Leu	Glu	Arg	Ala	Ile	Glu	Ser	Asn	Gln	Ser	Ser	Val	Asp	Leu	Lys
370						375					380				
Leu	Ala	Lys	Leu	Lys	Leu	Cys	Thr	Glu	Phe	Trp	Glu	Pro	Ser	Thr	Leu
385					390					395					400
Val	Lys	Glu	Trp	Gln	Lys	Leu	Ile	Phe	Leu	His	Pro	Asn	Asn	Thr	Ala
				405					410					415	
Leu	Trp	Gln	Lys	Tyr	Leu	Leu	Phe	Cys	Gln	Ser	Gln	Phe	Ser	Thr	Phe
			420					425					430		
Ser	Ile	Ser	Lys	Ile	His	Ser	Leu	Tyr	Gly	Lys	Cys	Leu	Ser	Thr	Leu
		435					440					445			
Ser	Ala	Val	Lys	Asp	Gly	Ser	Ile	Leu	Ser	His	Pro	Ala	Leu	Pro	Gly
450						455					460				
Thr	Glu	Glu	Ala	Met	Phe	Ala	Leu	Phe	Leu	Gln	Gln	Cys	His	Phe	Leu
465					470					475					480
Arg	Gln	Ala	Gly	His	Ser	Glu	Lys	Ala	Ile	Ser	Leu	Phe	Gln	Ala	Met
				485					490					495	
Val	Asp	Phe	Thr	Phe	Phe	Lys	Pro	Asp	Ser	Val	Lys	Asp	Leu	Pro	Thr
			500					505					510		
Lys	Gly	Gln	Val	Glu	Phe	Phe	Glu	Pro	Phe	Trp	Asp	Ser	Gly	Glu	Pro
		515					520					525			
Arg	Ala	Gly	Glu	Lys	Gly	Ala	Arg	Gly	Trp	Lys	Ala	Trp	Met	His	Gln
530						535					540				
Gln	Glu	Arg	Gly	Gly	Trp	Val	Val	Ile	Asn	Pro	Asp	Glu	Asp	Asp	Asp
545					550					555					560
Glu	Pro	Glu	Glu	Asp	Asp	Gln	Glu	Ile	Lys	Asp	Lys	Thr	Leu	Pro	Arg
				565					570					575	
Trp	Gln	Ile	Trp	Leu	Ala	Ala	Glu	Arg	Ser	Arg	Asp	Gln	Arg	His	Trp
			580					585					590		
Arg	Pro	Trp	Arg	Pro	Asp	Lys	Thr	Lys	Lys	Gln	Thr	Glu	Glu	Asp	Cys
		595					600					605			
Glu	Asp	Pro	Glu	Arg	Gln										
610															

<210> 10487

<211> 1481

<212> DNA

<213> Homo sapiens

<400> 10487

agaactcccc	tgtttccoga	gtgcatagga	aagtgccttag	cattgaatgt	ggagcgatag	60
aatgaacaaa	gaaatgacaa	aatgactagg	tggatgaatg	catagcttaa	tatcagcgag	120
gcaggaagta	aacaaagaga	cactgagcac	caagtaattc	aatacaattc	atcatgagaa	180
cttatcttta	agctcctgtt	tcatgagggt	agatactgtc	caacatgggt	cttacagcac	240
ttgttttagc	tgacagcact	ggcattcagt	gaaaattaca	gtgggcttga	gtatctttgg	300
aaataacggt	tttgcaaatt	tgattaccat	taaacagcct	ttataaaaca	cctacctgag	360
taggaatgga	gtatatatgt	tagccaagac	ttaattattc	atctcaggaa	ttggcacact	420
atctgttggc	taaagccatc	ttcctgtcta	cttaccttat	ctgtttttat	agagcccata	480

00629469.072800



cactttgtca	ctacatccat	cccagagctg	ccccagtggc	tggaggcctc	ttgaatatca	1440
gcatcatgct	ctcccccaac	ctaggggatt	cgttttcctc	ccctgcagta	gacatttgcg	1500
tgaaggttaa	tccacagtta	ggagttgctt	aactcaagcc	tcagaaagcg	tacactgcat	1560
ctttaagaaa	tagtttactt	gtgaatcagt	aaacgtacta	gacaaagcag	ccattactta	1620
tgcattcctg	catatccagc	aagggtgaaa	taatagaata	aacatcatat	acttcattat	1680
gatatcggtt	tacacttcca	gggtacacaa	aaagaggcca	tttcatcaag	ctaattgcct	1740
gaaagtaaaa	gagagagaac	tttagctatt	agtctattat	ggggcttttt	tcttaatcac	1800
aatagggggc	cgtgtgtccc	tgggggggatg	tgtattctaa	tttacaattg	aactacagat	1860
cagagcaatc	aatcttgggc	agcactttta	cagtgttaatt	gctgcaacat	aacaaat	1917

<210> 10489

<211> 2052

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1472).. (2050)

<400> 10489

tactaaatga	tgttttatttc	actatatccc	atgtgctctg	actctgagac	ttcaagggtt	60
gaagggggct	aaacatgaaa	tacaagttcc	cctggaattc	agactggttg	aatccaagca	120
gtttcactgg	ccaagaaaac	ctttatgttt	tggccgggca	cagtggttca	cgctgtaat	180
gccagcactt	tggaaggctg	aggcggggcg	atctcctgag	gtaaggagtt	tgggaccatc	240
ctggccagca	aggtgaaact	ctgtctctac	taaaaataca	aaaatcagcc	cgcggtggtg	300
gcgggtgcct	gtaatcccag	ctactcagga	ggctgaggca	ggaggatcac	ttgaaccacg	360
gaggcagagg	ttgcagttag	ctgagatcgc	accactgccc	tccagcctgg	gcaacagaat	420
aaatgagact	ccgtctccaa	aaaaaaaaaca	agaaaaagaa	aagaaagaaa	gaaaacctcc	480
tttatgtttt	aaatattact	gttttcccaa	aggaaaaaag	tttgtaattt	ttggaacata	540
atgacattgt	caaactcatg	aactcagctc	taaaaagaag	gcaacataag	ccagggttca	600
gattcttctt	gagctgggta	aaaatacaac	actttcagtt	taagagaaac	taaaaacaaa	660
gaaaacaatt	aagtacattg	tttcagttta	actgataaaa	tttcaattgt	aacaaccagt	720
agcacaaact	atcacaaccc	attcaataat	ctactcctaa	caccctttta	agaattatta	780
ttcctgacta	atggcccagg	catatccaat	ttttcttttc	tatctcctcc	ctggacaact	840
tgaagcagac	atttgaatct	gcattttcaa	aatgaacgtt	ccaacatacg	cgagcctgca	900
atgaaaaaatt	acgctgtagc	atttaataac	taatctaaaa	aacaaatgta	acagcaatca	960
atattaaact	tctgttaatc	ttcccacttc	aggtagcata	attacaatct	agagagtggg	1020
atagtacatt	tatgctgtct	ttaaagaaca	tgtgtacaaa	atgtcactaa	atttgatatg	1080
ggctgtcata	gacttaatat	agcttcatat	gcaaatttga	agctggagca	ctgctttttt	1140
ctaatatata	ttataataat	ggtgataata	ataaaatggc	tttatgggtt	gotcactact	1200
aattacatgg	cacttaacat	ttgcatgaat	tttttttaaa	aaactgataa	ctattctcaa	1260
tttcttatcc	actagtctta	atggccataa	aagtagcctg	ccacttttgc	tgaattttta	1320
cacaaaactct	tgtactacag	aaaatgtagg	cgggttaatc	actcctgcca	aaaagcttga	1380
agatacaata	cgtcttgctg	aactagtcac	tgaagttctt	cagcaaaatg	aggagcacca	1440
cgcagaggcc	tttgcgtggt	ggtcagattt	aatgggtggag	catgcggaga	cgttcctgtc	1500
actcttttga	gtagacatgg	atgcagcctt	agagggtgcaa	cctccagaca	catgggacag	1560
ttttccacta	tttcagctgc	tgaatgattt	tctccgtact	gactataatt	tgtgcaatgg	1620





<220>  
<221> CDS  
<222> (1019).. (1339)

<400> 10491

```

aatcagctat ttcatgcagt gcaaagattg caaagagtac aaaaccagct gaaaagcatg 60
cgccaagctg cagcagatgc aaagcctgaa agtttaaatga agaggctaga ggaggagata 120
aaattttaatt tatatatggt aactgaaaaa ttctctaaag aattagaaaa taagaaaaaag 180
gaattacatt ttttacaaaa agtagtttca gagccagcta tgggccattc tgatcttctt 240
gaacttgaat ctaaaataaa tgaaataaac acagaaatta accagttgat tgaaaagaaa 300
atgatgagaa atgagcccat tgaaggcaaa ctctcactgt ataggcaaca ggcattctatc 360
atttcccgtg aaaaagaagc caaagctgag gaacttcagg aggccaagga gaagttagcc 420
agcctagaga gagaagcatc agtaaagaga aatcagaccc gtgaatttga tgggtactgaa 480
gttttaaagg gagatgagtt caaacgatat gtcaataaac ttccaagcaa gagtacagtt 540
ttcaaaaaga agcatcagat aatagctgaa cttaaagctg aattcgggtct tttgcagagg 600
actgaagaac ttcttaagca acgtcatgaa aatattcaac aacaactgca aactatggag 660
gagaaaaagg gtatatcttg atatagttac acccaagaag agctagaaaag agtatctgca 720
ctgaagagtg aagttgatga aatgaaagga cgaacatttg atgatatgtc tgaaatgggtg 780
aaaaaaaaactg tattcatttg tatctgaaaa gaagtcagct cttgcctcag ttataaaaaga 840
gctacgacag ttgcgtcaaa aatatcaaga actgaccag gagtgtgatg aaaagaaaatc 900
ccagtatgat agctgtgcag caggcctcga aagcaatcgg tccaaattag aacaggaagt 960
tagaagactc cgtgaagaat gtcttcaaga agaaagtaga taccattata caaattgtat 1020
gattaagaac ctagaagttc aacttcgtcg tgctactgat gagatgaagg catatatctc 1080
ttctgatcaa caagaaaaaa gaaaggcaat tagggaacag tataccaaaa atactgctga 1140
acaagaaaaac cttggaaaaga aacttcggga aaaacaaaaa gttatacgag aaagtcattg 1200
tccaaatatg aaacaagcaa aaatgtggcg tgatttggaa caattaatgg aatgtaagaa 1260
acagtgcatt ctgaaacaac aaagccaaac ttccattggt caggtaattc aggaggggtg 1320
ggaggaccgg ctaatactgt gaattcttgt gtcacgtttt ggggtttttac ttgataccac 1380
tagctataag cctaattctc taatgtatct cttttttgaa actgatttgt atagcatttt 1440
gttttcagaa gagccattct ttattaagtt ttcatagaaa ataattgtta ggtagattta 1500
gtttgaatgt tttttcatat gaaaaagagg cttttattct tttccatagt ttagacatca 1560
ctggcgtctt ctgagtttta tgagacagga aactaagttt actatctgta aatgtaaaca 1620
tatgtccatt aagaaacatg tagttttttt ttagaatgta ataaccaggt ggottactgt 1680
ttttottaat ctcttttaaa aaaacttttag aagaatcttt taggaactaa tatctcttgt 1740
totgaagaaa catttatctg acgttcagca gttcctacag ttttacttca gtttatTTTT 1800
cttctgtaaa atgcaagaaa atttaatat ttgactaaca tgtcttttct gtttgtatca 1860
tttaaaggca aataaacttg gtacgtattt catatctatt t 1901

```

<210> 10492  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 10492

Met Ile Lys Asn Leu Glu Val Gln Leu Arg Arg Ala Thr Asp Glu Met  
1 5 10 15

-3995/13211-

Lys Ala Tyr Ile Ser Ser Asp Gln Gln Glu Lys Arg Lys Ala Ile Arg  
20 25 30  
Glu Gln Tyr Thr Lys Asn Thr Ala Glu Gln Glu Asn Leu Gly Lys Lys  
35 40 45  
Leu Arg Glu Lys Gln Lys Val Ile Arg Glu Ser His Gly Pro Asn Met  
50 55 60  
Lys Gln Ala Lys Met Trp Arg Asp Leu Glu Gln Leu Met Glu Cys Lys  
65 70 75 80  
Lys Gln Cys Phe Leu Lys Gln Gln Ser Gln Thr Ser Ile Gly Gln Val  
85 90 95  
Ile Gln Glu Gly Gly Glu Asp Arg Leu Ile Leu  
100 105

<210> 10493  
<211> 1962  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (147).. (1391)

<400> 10493  
aaagacaatc gcgggccaccg ccaggtggaa cggcaggtgg gttcaggtac cagcctggcc 60  
gggaccccggc tgtgggacca acgcttcctt tccccattcc cctaccgagc tgggcagtta 120  
gccagcccac tccaactctc ggaaccatgt ttgcagactt ggattatgac atcgaagagg 180  
ataaactcgg aatcccgact gtgcctggga aggtgaccct gcagaaggat gtcagaacc 240  
tgatcgggat cagcattgga ggagggggccc agtactgtcc ctgcctctat atcgtccagg 300  
tatttgacaa caccacagca gccttggacg gcacagtggc agctggcgat gagatcaccc 360  
gtgtcaatgg caggtcaatc aaagggaaaa ctaaggtgga ggtggcgaag atgattcagg 420  
aggtgaaggg ggaggtgacc atccactaca acaagctgca ggcggaaccc aagcagggca 480  
tgtccctgga catttgtgtg aagaaagtca agcaccggct ggtggagaac atgagttcag 540  
ggaccgcaga tgctctgggc ctgagccggg ccctcctgtg caatgatggg cttgtcaaga 600  
ggctagagga gctggagcgg accgctgagc tatacaaagg gatgacggaa cacaccaaga 660  
acctcctacg ggccctttat gagctgtcgc agactcaccc ggcccttggg gacgtgttct 720  
ccgtgatcgg ggtgcgggag ccccagccag ctgcgagcga ggcttttgtg aagttcgccg 780  
atgcccaccg cagcatcgag aagttcggca ttcggtctct gaaagccatc aagccgatgc 840  
tgacggatct gaacacgtac ctcaacaaag ccctcccgga cactcgccct accatcaaga 900  
agtacctgga cgtgaagttt gactacctgt cgtactgcct gaaggtgaag gagatggatg 960  
acgaggaata cagctgcatt gccctaggcg agcccttta cggggtgagc accggcaact 1020  
atgagtagcg cctgatcctg cgctgccgcc aggaggcgcg cgcccgcttc tcccagatgc 1080  
gcaaggatgt gctggagaag atggagctgc tggaccagaa gcacgtccag gacatcgtgt 1140  
tccagctgca gcgcctcgtg tccaccatgt ccaagtacta caacgactgc tacgcagtgc 1200  
tgcgggatgc cgacgtcttc cccatcgagg tagacctggc gcacaccaca ttggcctatg 1260  
gcctcaacca ggaggagttc acagatgggg aggaggagga ggaggaggaa gacacggcag 1320  
ctggggagcc gtccagggat acacgagggg ctgctggggc cttggacaag ggtggaagct 1380  
ggtgtgactc ctgagtggcc cgcggctgtg gtgccggggg cagggtgcgt gggaggacgg 1440

00629469.072890

```

agcctgggag cggggcgggg ccgccgcgca agggggcgac gcataaaggc ctgctggctt 1500
ggggcgccctg cctccctgct cctctgtcct cgcacagcga acctgggctc ctgcccagga 1560
caggcaccag ggtcatggcc tgggacctgg aacttgccc ctcaccctc cctcccctcc 1620
cggctccccg gccagaggga gagcttggtc tctggacctg ccttaggaag gagaggagg 1680
gcaggaagga aaagaaagga ctgggagggtg gcaggagtcc gagccctgct ccttgtgggc 1740
gctcacactg cccccggagc ctgctgggag tggggccagc cgtggacagc tgaggttggg 1800
gtcaatgcct cctgggcacc ctgacctgc cccagaccgg cccgtccagt ccccatcaca 1860
cctcggcggc ctttatttat tctgttcccc cagctcggcc acttctctga aggagggctg 1920
ggttctgggc ctgtatcgaa taaacacaaa cctggatggc gc 1962

```

<210> 10494  
 <211> 415  
 <212> PRT  
 <213> Homo sapiens

<400> 10494

Met	Phe	Ala	Asp	Leu	Asp	Tyr	Asp	Ile	Glu	Glu	Asp	Lys	Leu	Gly	Ile
1				5					10					15	
Pro	Thr	Val	Pro	Gly	Lys	Val	Thr	Leu	Gln	Lys	Asp	Ala	Gln	Asn	Leu
			20					25					30		
Ile	Gly	Ile	Ser	Ile	Gly	Gly	Gly	Ala	Gln	Tyr	Cys	Pro	Cys	Leu	Tyr
	35				40						45				
Ile	Val	Gln	Val	Phe	Asp	Asn	Thr	Pro	Ala	Ala	Leu	Asp	Gly	Thr	Val
	50				55						60				
Ala	Ala	Gly	Asp	Glu	Ile	Thr	Gly	Val	Asn	Gly	Arg	Ser	Ile	Lys	Gly
65					70				75					80	
Lys	Thr	Lys	Val	Glu	Val	Ala	Lys	Met	Ile	Gln	Glu	Val	Lys	Gly	Glu
			85					90						95	
Val	Thr	Ile	His	Tyr	Asn	Lys	Leu	Gln	Ala	Asp	Pro	Lys	Gln	Gly	Met
			100				105						110		
Ser	Leu	Asp	Ile	Val	Leu	Lys	Lys	Val	Lys	His	Arg	Leu	Val	Glu	Asn
	115					120					125				
Met	Ser	Ser	Gly	Thr	Ala	Asp	Ala	Leu	Gly	Leu	Ser	Arg	Ala	Ile	Leu
	130				135						140				
Cys	Asn	Asp	Gly	Leu	Val	Lys	Arg	Leu	Glu	Glu	Leu	Glu	Arg	Thr	Ala
145				150					155					160	
Glu	Leu	Tyr	Lys	Gly	Met	Thr	Glu	His	Thr	Lys	Asn	Leu	Leu	Arg	Ala
			165				170							175	
Phe	Tyr	Glu	Leu	Ser	Gln	Thr	His	Arg	Ala	Phe	Gly	Asp	Val	Phe	Ser
			180				185						190		
Val	Ile	Gly	Val	Arg	Glu	Pro	Gln	Pro	Ala	Ala	Ser	Glu	Ala	Phe	Val
	195					200						205			
Lys	Phe	Ala	Asp	Ala	His	Arg	Ser	Ile	Glu	Lys	Phe	Gly	Ile	Arg	Leu
	210				215						220				
Leu	Lys	Ala	Ile	Lys	Pro	Met	Leu	Thr	Asp	Leu	Asn	Thr	Tyr	Leu	Asn
225				230					235					240	
Lys	Ala	Ile	Pro	Asp	Thr	Arg	Leu	Thr	Ile	Lys	Lys	Tyr	Leu	Asp	Val



agaccagcct	ggccaacatg	gtgaaacccc	gtctttacta	aagctacaaa	aattagctgg	1200
gcgtgggtgcc	aggcgcttgt	ggtccccggt	actcaggagg	ctgaggcagg	agaattgctt	1260
gagcctggga	ggtggaggtt	gcagtgcagc	aagatcgctc	cattgcactc	cagcctgggt	1320
gacagtga	ctccatctca	aaaataaaaag	aataaaaagta	tgtctgtcat	ccagctccta	1380
tgtctgttat	ccagctccaa	gtacagcttg	tgtatatcaa	cattttcaaa	aacctttaa	1440
ctacc						1445

<210> 10496

<211> 2135

<212> DNA

<213> Homo sapiens

<400> 10496

gaaaagagat	gcaccatttt	cttcttgttc	tttggataag	ctaagctcat	tcccatcttg	60
gagctgttgc	actggccctt	gtgtggctgg	tccctcctca	tcaccagggt	cccagctcca	120
atgtcatctt	ctctgagaag	ccgtccctga	ccaggccttag	ttgcttccca	ccccagcctg	180
acacactcca	gcccatacacc	cagtcagtgt	tatttgcctc	atttttacat	tatggtctaa	240
aattaacttg	ctagtcttact	ggtttactag	tttattatct	gtctccttcc	attatccctc	300
tccttccttc	cttcccttcc	ccttccttcc	ttccttcctt	ccttccttcc	ttccttcctt	360
cgagacacag	tcgtactctg	tcaccccggc	tggagtgcag	tgggtgtgatc	ttgcctcact	420
acaacccctg	cctcctgggt	tttagcgatt	cttctgcctc	agcctcccga	gtagctggga	480
ctacaggcac	ccaccacgat	gccaggctaa	tttttgtatt	tttattggag	acagggtttc	540
accatgttgg	ccaagctggt	ctcgaactct	tgacttcaag	tgatccacct	gtctcggcct	600
cccaaagtgc	tgggattaca	ggcatgagcc	actgcacctg	gcccttttat	tattcatagt	660
aagacacaca	gggaccacaa	ttgtctcttc	tactcagtag	ttggattctg	agtgcctagt	720
tcagtatttg	gcaagtaaga	gttctacatt	tgatatcctg	gtttacctga	caacaaagta	780
tctccaaatt	cattcattca	ttctttcatt	cattcgatag	gtattttactg	aacatctaac	840
ttatgccc	cactatgctg	agagatatga	gataaccatg	aatagtacaa	aagcaatccc	900
tgcccttgca	gagcaaacag	ccaaatatca	ggagacagggt	aacacacaag	gaaatgtaca	960
agaaagtga	gccagcactt	ttataagtgc	tgggtcttagt	actagctttc	ataagaaagt	1020
actggttcta	gtactagctt	tcagtactct	cttgtgaaat	tttcaatatt	cagtcatttc	1080
aacctcaaaa	atggcaacat	aattatgttt	caacataatt	gttgttttaa	acaaacaatt	1140
ttgtttcaac	ataattctcc	tgaactgggt	ggaaggctat	caagaaaaag	cttagcttct	1200
tcttcaggta	actgcaagag	acagggttct	ctagagaaac	agaacaaata	tacaaagaga	1260
ttcattataa	ggaattggaa	gtccaaaatc	tccagagcct	ctgtacttgt	acaagtctga	1320
aggccgacag	gcaggagaat	tctctctttt	tggggcacaag	gtcagtgttt	tgttctatcc	1380
aggctttcag	atgattgggt	gaggctcact	cacattagaa	gggcaatctg	tcttactgcc	1440
attagaatgc	aacctgtttt	acttagctta	ctgatttcaa	tgtaaatcta	tttcaagagc	1500
accctcacag	aaacacccag	aataatgttt	gatgaaatat	ctgggcaccc	tgtgaccag	1560
tcaagttgac	acatgacact	aaccatcaca	gtacgcttag	ggtcttgtca	ctcggagtgt	1620
ggcctgtgaa	ccagcagcat	ttttatcttc	tgggagcttg	ggcacgatct	caggccccac	1680
ctcctgctta	ttgattcaga	atctgcattt	taacaagatc	cccagggtgat	ctggatgcac	1740
cgtaacatct	gagaagcact	caaactatgt	gccgcaaaca	aacgccaaat	tcttaggcat	1800
ttgtgtggct	tggagcacat	agttggttct	ttctactgtc	taattcatta	cattttttca	1860
gcacattcct	gtctataaaa	tgtttttttg	tatgcacccc	aatatatgca	catttataag	1920
catatgcatg	aaccacgaa	caatgattag	gtacattatg	aagcatacgt	aaggacagaa	1980
atttcaaacc	aagcttgagg	gtgaaataaa	tattatttga	aaacctgttg	ctaattgtga	2040

tgacttcata ctatcattag ttactatctc aatgcataat gtacagtgc ggggtgaagtt 2100  
tatcattaat aaaaaaaatc tggatttttaa ccatt 2135

<210> 10497

<211> 1401

<212> DNA

<213> Homo sapiens

<400> 10497

cttgaaaagt taacgtagaa aatatccaaa aagcagtatt tctagaaaagt gtccaaaaag 60  
cagtatttct ttcccttggt tgtgagagta actaattata taaatattac ctcaaaaata 120  
catacactgg tatcacacag tctttctaca atgtttctgt attctgaaag ctaaataatta 180  
agtactattt ttccattcaa atattcattt agaatttctt ttagaagatg gcagtgatta 240  
taatattaat atgatttcat ttgttccagt gtttagacat gaaatcatct tccttgtctc 300  
atgaaaacct aaatataaaa aaaaggaaaa tactggagtt tttatttctc ttgtctttgt 360  
tacatcctct gtttattata attttagcac caacttcaca cctagctaatt tttttttcat 420  
cataaagtgg atgaaatgag caagtaccta aaaattttat ttcagacaaa agtcaggagt 480  
tactgctaaa aaacagacat gtaggagaca ttcaacagga gtatgaaatg agagttagac 540  
catatgggct gacaacacca taaataacaa gaaaaggagg tgctgaaata ggagagaaca 600  
gagcaaatgt tagctcaaag tatagactta gaaatatcaa agtaagagct atctggataa 660  
atatatagat attgagtgtc tggaatccta gcctactatg tgaataataa gtctaattgtc 720  
agaataactt acagaaaaat agaaaatgca cagctttaaa atgggcagag ttaaaatcta 780  
ttcccagctt tatcacttat ttagccatgc tagcctaggg cctatatttc ttgtctccaa 840  
aatgagaata ataaaattta ggtcaggatt actatataaa ctaagataat acagtgttgc 900  
tcaaagttgt tcagactgta tagtaaggag aaagtctggg tgcactttga agagcttgaa 960  
gatttgaaag attcccaaaa aagcatttta aagtttacat ttaagggacc ttggacctca 1020  
accctctcaa gtttacaagt ctgaaacttt agacatcaaa agtttgagca gtttttccaa 1080  
ggcaacattg atagttagat tcagggccag gctgtaagtc tagaatttag atatcctgat 1140  
ccccagata ccgctcttct ggttatacac agaccagcta taatttgcta aacataaaaat 1200  
attgcagtgt attagccagc tgtggctcca gagtctgtgc cctttaccac cgtgcccaac 1260  
tgtttcacat gctgtgtttg gtagtttttc ctagtgcctc ccttaataat ggtggtgttt 1320  
agcaaattgt attacataaa taaatattta ttcatggat tgagttatgt tgcataataa 1380  
attactttcc ttcccattgt c 1401

<210> 10498

<211> 1742

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (97)..(1671)

<400> 10498

ccgcctccc gcctcccgcc tccctccagc tgcgagtgcg gcctcggctg gggcgggcac 60  
caggccacag ttgtaaggga tcttgtggct gtcaggatgg cagaggagca ggagttcacc 120

```

cagctctgca agttgcctgc acagccctca caccacact gcgtgaacaa cacctaccgc 180
agcgcacagc actcccaggc tctgctccga gggctgctgg ctctccggga cagcggaaac 240
ctcttcgatg ttgtgctggt ggtggagggc agacacatcg aggcccatcg catcctgctg 300
gctgcgtcct gcgattactt cagaggaatg tttgctgggg gattgaagga gatggaacag 360
gaagaggctc tgatccacgg tgtgtcctac aatgctatgt gccaaatcct acatttcata 420
tacacctccg agctggagct cagcctgagc aatgtacaag agacactggg ggctgcctgc 480
cagcttcaga tcccagaaat tatccatttc tgcgttgatt tcctcatgtc ctgggtggac 540
gaagagaaca ttctcgatgt ctaccggctg gcagagctgt ttgacttgag ccgcctgact 600
gagcaactgg acacctatat cctcaaaaac tttgtggcct tctctcggac tgacaagtac 660
cgccagcttc cattggagaa ggtctactcc ctctcagca gcaatcgctt ggaggtctcc 720
tgcgagaccg aggtatatga gggggccctt ctctaccatt atagcctgga gcaggtgcag 780
gctgaccaga tctcgtcga cgagcccca aagctccttg agacagtgcg gtttccgctg 840
atggaagctg aggtcctgca gcggctgcat gacaagctgg accccagccc tttgagggac 900
acagtggcca gcgcctcat gtaccaccgg aacgagagcc tacagcccag cctgcagagc 960
ccgcaaacgg agctgcggtc ggacttccag tgcgttggtg gcttcggggg cattcactcc 1020
acgccgtcca ctgtcctcag cgaccaggcc aagtatctaa accccttact gggagagtgg 1080
aagcattca ctgcctccct ggccccccgc atgtccaacc agggcatcgc ggtgctcaac 1140
aacttcgtat acttgattgg aggggacaac aatgtccaag gatttcgagc agagtcccga 1200
tgctggaggt atgaccacg gcacaaccgc tggttccaga tccagtccct gcagcaggag 1260
cacgccgacc tgtccgtgtg tgtttagtag aggtacatct acgctgtggc gggccgtgac 1320
taccacaatg acctgaatgc tgtggagcgc tacgaccctg ccaccaactc ctgggcatac 1380
gtggccccac tcaagaggga ggtgtatgcc cagcgaggcg cgacgctgga ggggaagatg 1440
tatatcacct gcggccgcag aggggaggat tacctgaaag agacacactg ctacgatcca 1500
ggcagcaaca cttggcacac actggctgac gggcctgtgc ggcgcgctg gcacggcatg 1560
gcaaccctcc tcaacaagct gtatgtgata gggggcagct ggggttgag gatgagagct 1620
cctgaggggc agaggagcag agatgcatca gctcgcctgg gactggctct gtgataaaaa 1680
gaccctccc gctgggtttt cagaccccat gttgttggtc aatgaaataa agcatcttac 1740
ag

```

<210> 10499  
 <211> 525  
 <212> PRT  
 <213> Homo sapiens

<400> 10499  
 Met Ala Glu Glu Gln Glu Phe Thr Gln Leu Cys Lys Leu Pro Ala Gln  
 1 5 10 15  
 Pro Ser His Pro His Cys Val Asn Asn Thr Tyr Arg Ser Ala Gln His  
 20 25 30  
 Ser Gln Ala Leu Leu Arg Gly Leu Leu Ala Leu Arg Asp Ser Gly Ile  
 35 40 45  
 Leu Phe Asp Val Val Leu Val Val Glu Gly Arg His Ile Glu Ala His  
 50 55 60  
 Arg Ile Leu Leu Ala Ala Ser Cys Asp Tyr Phe Arg Gly Met Phe Ala  
 65 70 75 80  
 Gly Gly Leu Lys Glu Met Glu Gln Glu Glu Val Leu Ile His Gly Val  
 85 90 95

002240" 69462960

Ser	Tyr	Asn	Ala	Met	Cys	Gln	Ile	Leu	His	Phe	Ile	Tyr	Thr	Ser	Glu
			100					105					110		
Leu	Glu	Leu	Ser	Leu	Ser	Asn	Val	Gln	Glu	Thr	Leu	Val	Ala	Ala	Cys
			115					120					125		
Gln	Leu	Gln	Ile	Pro	Glu	Ile	Ile	His	Phe	Cys	Cys	Asp	Phe	Leu	Met
			130					135					140		
Ser	Trp	Val	Asp	Glu	Glu	Asn	Ile	Leu	Asp	Val	Tyr	Arg	Leu	Ala	Glu
145						150					155				160
Leu	Phe	Asp	Leu	Ser	Arg	Leu	Thr	Glu	Gln	Leu	Asp	Thr	Tyr	Ile	Leu
				165						170					175
Lys	Asn	Phe	Val	Ala	Phe	Ser	Arg	Thr	Asp	Lys	Tyr	Arg	Gln	Leu	Pro
			180					185					190		
Leu	Glu	Lys	Val	Tyr	Ser	Leu	Leu	Ser	Ser	Asn	Arg	Leu	Glu	Val	Ser
			195					200					205		
Cys	Glu	Thr	Glu	Val	Tyr	Glu	Gly	Ala	Leu	Leu	Tyr	His	Tyr	Ser	Leu
			210					215					220		
Glu	Gln	Val	Gln	Ala	Asp	Gln	Ile	Ser	Leu	His	Glu	Pro	Pro	Lys	Leu
225					230						235				240
Leu	Glu	Thr	Val	Arg	Phe	Pro	Leu	Met	Glu	Ala	Glu	Val	Leu	Gln	Arg
				245						250					255
Leu	His	Asp	Lys	Leu	Asp	Pro	Ser	Pro	Leu	Arg	Asp	Thr	Val	Ala	Ser
			260					265						270	
Ala	Leu	Met	Tyr	His	Arg	Asn	Glu	Ser	Leu	Gln	Pro	Ser	Leu	Gln	Ser
		275					280						285		
Pro	Gln	Thr	Glu	Leu	Arg	Ser	Asp	Phe	Gln	Cys	Val	Val	Gly	Phe	Gly
			290			295					300				
Gly	Ile	His	Ser	Thr	Pro	Ser	Thr	Val	Leu	Ser	Asp	Gln	Ala	Lys	Tyr
305					310						315				320
Leu	Asn	Pro	Leu	Leu	Gly	Glu	Trp	Lys	His	Phe	Thr	Ala	Ser	Leu	Ala
				325						330					335
Pro	Arg	Met	Ser	Asn	Gln	Gly	Ile	Ala	Val	Leu	Asn	Asn	Phe	Val	Tyr
			340					345						350	
Leu	Ile	Gly	Gly	Asp	Asn	Asn	Val	Gln	Gly	Phe	Arg	Ala	Glu	Ser	Arg
			355				360					365			
Cys	Trp	Arg	Tyr	Asp	Pro	Arg	His	Asn	Arg	Trp	Phe	Gln	Ile	Gln	Ser
			370			375					380				
Leu	Gln	Gln	Glu	His	Ala	Asp	Leu	Ser	Val	Cys	Val	Val	Gly	Arg	Tyr
385					390						395				400
Ile	Tyr	Ala	Val	Ala	Gly	Arg	Asp	Tyr	His	Asn	Asp	Leu	Asn	Ala	Val
				405						410				415	
Glu	Arg	Tyr	Asp	Pro	Ala	Thr	Asn	Ser	Trp	Ala	Tyr	Val	Ala	Pro	Leu
			420					425					430		
Lys	Arg	Glu	Val	Tyr	Ala	His	Ala	Gly	Ala	Thr	Leu	Glu	Gly	Lys	Met
			435				440					445			
Tyr	Ile	Thr	Cys	Gly	Arg	Arg	Gly	Glu	Asp	Tyr	Leu	Lys	Glu	Thr	His
	450					455					460				
Cys	Tyr	Asp	Pro	Gly	Ser	Asn	Thr	Trp	His	Thr	Leu	Ala	Asp	Gly	Pro
465					470					475					480

000220-69462960



Val	Arg	Arg	Ala	Trp	His	Gly	Met	Ala	Thr	Leu	Leu	Asn	Lys	Leu	Tyr
			485						490					495	
Val	Ile	Gly	Gly	Ser	Trp	Gly	Trp	Arg	Met	Arg	Ala	Pro	Glu	Gly	Gln
		500						505					510		
Arg	Ser	Arg	Asp	Ala	Ser	Ala	Arg	Leu	Gly	Leu	Ala	Leu			
	515						520					525			

<210> 10500  
 <211> 1966  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (192).. (935)

<400> 10500

```

agtctgggtc tggagcctga gccctgcgga acctcggcgc cggccccac cccgcccgtg 60
cctgcactta tttattgttg ttattttctta ccgcggagcc ccgcagtcgg gtccctccgc 120
ccgctcccg cgcagcgtag cattctccag tccctcagtc ccttcccgcg cgggtgcgccc 180
cagccgaggg gatgcgccac attcagaaca tgtgcaccat cgcgcagtag cccgcgcccg 240
gcaacgcccg gccctccgac tgcctgtgtg gcgcccgcgg ccgcgcctgt gtcaagatcg 300
ccgtgggtgg cgccagcggc gtgggcaaga ccgcactgtt ggtccggttc ctcaccaaac 360
gattcatcgg tgactatgaa agaaatgcag gtaatctcta tactagacaa gtccagatag 420
aaggtgaaac cctggctctt caggttcaag aactccagg tattcaggtc catgagaaca 480
gcctgagctg cagtgaacag ctgaataggt gcattcgtgt ggcagatgct gtggtgatcg 540
ttttctccat cactgactac aagagctatg aactcatcag ccagctccac cagcacgtgc 600
agcagctaca cctgggcacc cggctgcctg tgggtggtgt ggccaacaaa gctgacctgt 660
tgcacatcaa acaggttgac cctcagcttg gactgcagct agccagcatg ctaggctgct 720
cattctatga agtgtctgtc agtgaaaatt ataatgatgt ctacagcgcc ttccacgtcc 780
totgtaaaga ggtcagtcac aaacagcagc ctagcagtag acccgagaag cgaagaacct 840
ccctcattcc caggcccaag tcacccaaca tgcaggacct gaagaggagg ttaagcaag 900
ccctctctgc caaagtgagg actgtcacct ccgtctgaag caggaggagg actcaagggg 960
gtttgggtctt cccaggaaga gggcctgagg ttctcctagt gcaggaacct tgaatattgg 1020
caatgattcc tggttccaga aagggttgga gcagaagggc taagaggggc tgttggaactg 1080
ctacagaaaa ggaagtgttg ttctgagcag ggggacagga ttgatgaggc ttgaaagagc 1140
ccactgagcc actctctgaa tatgtgaaat gtactctgtg tcttttcctt tagagtgggg 1200
agggggcata atcgtttcgg tttctgcatt caactacctt gtaaattggtg gtccgttgca 1260
gtttcaccaa atgtattgat gtgatttaca gtgggaatga aagaacagat taagcattga 1320
taggctttct ttttccccc tttttctttt tttctctttt cttctttctt ttctctttt 1380
tccccaaag gaagaattgc tttctcttta tcagtatgat ttgtaactct ggaacactat 1440
tottacagaa tgcctttcta acctgaagga taccagatt tctttcttta tgtacaagat 1500
gaaaaatccc ctaccctca aaaacagggt gagtttatgg gccagaatat tctgtatacc 1560
agacattggt aagctcgcat ggtttacagg aaggctctgg tccccctca caggatgagc 1620
atgotcagtt gggcgtgtgt ggaggagctg tgaacttcac gctcttcaac cccagacttt 1680
gactgtatag tttttgttt ttttaactgt tccatcagga aaaaaatgtg tcagttgatt 1740
ttgggtgtgac ttgtgtaaat ggttcattggc aatgacgttg ggttgcttcc taggcctggc 1800
    
```

009270"6942950

tgagttgtgc ctaaggggtgg ctgaaatact aaaacactat cttacagcaa gtgaacaggg 1860  
gctacctgcc acatccccctc cacagatgca ctttaaaaag ccactcaagc tttggcttaa 1920  
actgtaatta atttatttta tgtacaataa atcgcatitg aaaaag 1966

<210> 10501  
<211> 248  
<212> PRT  
<213> Homo sapiens

<400> 10501

Met	Arg	His	Ile	Gln	Asn	Met	Cys	Thr	Ile	Ala	Glu	Tyr	Pro	Ala	Pro
1				5					10					15	
Gly	Asn	Ala	Ala	Ala	Ser	Asp	Cys	Cys	Val	Gly	Ala	Ala	Gly	Arg	Arg
			20					25					30		
Leu	Val	Lys	Ile	Ala	Val	Val	Gly	Ala	Ser	Gly	Val	Gly	Lys	Thr	Ala
		35					40					45			
Leu	Leu	Val	Arg	Phe	Leu	Thr	Lys	Arg	Phe	Ile	Gly	Asp	Tyr	Glu	Arg
	50					55					60				
Asn	Ala	Gly	Asn	Leu	Tyr	Thr	Arg	Gln	Val	Gln	Ile	Glu	Gly	Glu	Thr
65					70					75					80
Leu	Ala	Leu	Gln	Val	Gln	Asp	Thr	Pro	Gly	Ile	Gln	Val	His	Glu	Asn
				85					90					95	
Ser	Leu	Ser	Cys	Ser	Glu	Gln	Leu	Asn	Arg	Cys	Ile	Arg	Trp	Ala	Asp
			100					105					110		
Ala	Val	Val	Ile	Val	Phe	Ser	Ile	Thr	Asp	Tyr	Lys	Ser	Tyr	Glu	Leu
		115					120					125			
Ile	Ser	Gln	Leu	His	Gln	His	Val	Gln	Gln	Leu	His	Leu	Gly	Thr	Arg
	130					135					140				
Leu	Pro	Val	Val	Val	Val	Ala	Asn	Lys	Ala	Asp	Leu	Leu	His	Ile	Lys
145					150					155					160
Gln	Val	Asp	Pro	Gln	Leu	Gly	Leu	Gln	Leu	Ala	Ser	Met	Leu	Gly	Cys
				165					170					175	
Ser	Phe	Tyr	Glu	Val	Ser	Val	Ser	Glu	Asn	Tyr	Asn	Asp	Val	Tyr	Ser
			180					185					190		
Ala	Phe	His	Val	Leu	Cys	Lys	Glu	Val	Ser	His	Lys	Gln	Gln	Pro	Ser
		195					200					205			
Ser	Thr	Pro	Glu	Lys	Arg	Arg	Thr	Ser	Leu	Ile	Pro	Arg	Pro	Lys	Ser
	210					215					220				
Pro	Asn	Met	Gln	Asp	Leu	Lys	Arg	Arg	Phe	Lys	Gln	Ala	Leu	Ser	Ala
225					230					235					240
Lys	Val	Arg	Thr	Val	Thr	Ser	Val								
				245											

<210> 10502  
<211> 1619  
<212> DNA

09629469.072800

<213> Homo sapiens

<400> 10502

```

aattataatg gatttgaaat ttgccctaac caagagtcac agacagaaaa aaggaagtta 60
atgtatctct tgatcactgt caagatgtgg tattgaacct tcaagatcct tttcagggaa 120
tatgtgagat caaaatTTTT atactggcac tatgatgtta tttgccTTTT cctcatattc 180
acaagtgaac agtggagttt tacagaagct atataatgtc atgacatcac tgatgggtaa 240
tagaatgtgt gcttgatatat tccgaaactt tcagttccaa tttcttcgat caatgtaatc 300
ctcataagta aaagttatTT gaggacctca gacattTTTT aaaatgtaaa ggggggtggg 360
tcaggctcag tggctcatgc ctgtaatccc agcattttgg aaggccgagg cgaacggatc 420
acttgaggcc aggagtttga aactagtctg gtcaacatgg tgaaaccccg tctccactaa 480
aacaaaaagt tttctggatg tgggtggcac catacctgta atcccagcta ctttgggtggc 540
tgaggcatga gaatcacttg aaccacagaag acaggttgca gtgagccaag attgtgcccc 600
tgcaattctag cctgggtgac agtgagactg tctcaaaaaa taaagggtga cagggtattgt 660
atatttgaca acttggtatg taggatgtgc tactctaat gttccatgct gttacttagt 720
tttcaactcac tactatattt tggagatttg ttcattttgc totgtgtaca ttttaattctt 780
cagtgtgtat ccaccacatt taacttattc acttacagaa ctatgcaaga atttctctgg 840
taaatttcac taagtactta tgtacttttc agaacgattg tgagtttaca cccctaccag 900
caggactgag ttgagtaccc atttcctcac atccttgcca gtacttcatt tgcctaattt 960
ttgccattct cataatgtgg caattgttca attttgcat tcttccattt tatttttttg 1020
catctctgct tttcttttgg ttagctttgc cagttctgcc tattatatta atctcccaga 1080
atcagctttt agttttgtta aatctctgac atgtttcgtt gattcctgct ttcactttaa 1140
acatttcttc gttgttaatt tgtgtttgct ataaaaataag caacatctta aatgcttgat 1200
ttgcttttoga tgtttattct gtaataagat atttaaagat ataatttttt ccctaaatgc 1260
tttattagac ttttctcata agttttgact ggtactgttt tcattgttat ttaattttgt 1320
gtcttttaac ttctttcatg atttcctttt aactgaagggt tttottagat atttagtttg 1380
ctgggtatatt cttttaaaat tgtatcattg ctttctttct atattggatt attgtcagag 1440
aacatgattt gcatgatatt aacttttttg agtatattgt tgcatctttg tggcctagta 1500
catagttaat ttagtgaatg cttccagttg tacttgaaaa gaatgtatat tttctgatta 1560
ttgagggttaa atttctctat atatgttttc ctgtttaata aatatgtagc tatgtgctt 1619

```

<210> 10503

<211> 1898

<212> DNA

<213> Homo sapiens

<400> 10503

```

atgacaggtt cctgggcccgc gccgcctcgc cctgcctggg cgggggttggg acctttctgg 60
cacctgcgtc gaagccggcg gcaggatgga ctttgttgtc ccggtcccag accaccctcc 120
tccaccgtcg cctcccactg caaaaaggcc tggataagga acctaatcgc agctaccctt 180
ctctgtgaag ctcgacggct gagaacgtca gggcttgttc ccaagtctct ttccagaggc 240
caggctttat gggagcatgg gttaccagcg acgcaccctg atcaagcaga gaaagagagg 300
ctggagaagg aagagtgaac gaagtaagaa gagagtgtct ctccacttcc actccagccc 360
cctacagctc atcctccagc aggcagccaa gggcactttt aggatctcac atcaggctcct 420
tgccctacat tctgcaactg cttcccaagt aattaaagta aaatccaaat tccagctcac 480
agcttagaaa actcagcagg actggcctct gtccctatccc acaccccacc tcagtcacctc 540
aagctcatct cctgtcattc ctgccattt ctggacccca gccactcctc aaacagggtg 600

```

```

aggatgcagt gtccaaggca ccatcttgaa ctcatcatcg ccaaatatgt gagcaccttg 660
atgttggact tcccaacctc cagaccgtaa ggcagtagat ttctttgtaa attacgcagt 720
ctcagctatt ctgttacagc agcacaaatg gactaagaca acccccgaga taggaagggg 780
taaggtaaat gcaatgagag ttgggggtttt cgatcttagt ccagtaaagg agctggaact 840
gttctgtata aacaaagggc aaggtaattg ctacatagat tcttttctta ttattgctga 900
ttcttatcct aaaataaagg acattgccac tacacatcct ctagaatgac caaaaataaa 960
aatacagcat caaatgggac gacatgggtg caactggaat totcataccc tgcgatggg 1020
agtataatgt ggtacagtca ctttggaaaa aagtttgaca atttcttata aaattatata 1080
taaacctgta ctatgaccta gagattctac tcctgtttgt tcaaaagaaa ggcaaacatc 1140
tgtccactaa aagatatgta caagaatgct cacagtggca ttatttatga cggtcctaac 1200
caggagataa tccaaatgtc tgtaaccaag agaattgata aagaaatttt gatacgtcaa 1260
tttaatggat tactacttag caataaaaaat aattagccat gctgggcgcg gtggcttatg 1320
cctgtaatcc cagcactttg ggaggctgag gcagggtgat cacctgaggt tgggagttca 1380
agaccagcct gaccaacatg gagaaccccc gtctctacta aaatacaaaa ttagccgggg 1440
tggtggcgca tgcctgtaat ccagctact cgggaggctg aggcaggaga atcacttgaa 1500
ccggggagggt ggaggttgca ttgagccgag attgcgccat tgcactccag catgggcaaa 1560
aagagcaaaa ctccgtctca aaaaaataaa ataaataata attagccaca tatccacaca 1620
acaatattgc attatcacag gtatagtgat aaatactgta tgattccatt tatatgaagt 1680
tcaagaacag gcaagtaatc catgatgaaa gaagtactta cctctggggg tggcagcatt 1740
gactaaagag gtacaaggga gtcttctggg gcctggaaat gttctatata ttgatctggg 1800
tggtggttac acaggtatac gcgtgttaag aaatcatcag gctgtatact tagtgtactg 1860
taatggcatt acaactgtctt tcaattaaaa tgtgaaag 1898

```

<210> 10504  
 <211> 1541  
 <212> DNA  
 <213> Homo sapiens

```

<400> 10504
aaaaaaaaat agatgctgcg tccagcggtta ccgtggctgt accttggcct ctgcagcctc 60
ctgggtggggg aggcagaggc cccgagcccc gtggatccgc tggagcggag ccggccgtac 120
gcgggtgctgc gagggcagaa cctggagtc cgtgcgcca ggctggagt caatgggtgcg 180
atctcggctc gctgcaacct ccgctctgg ggttcaagcg attctcctgc ctcagcccc 240
tgagtagctg ggattacagt gttgatggga accattttcg gcatcctgct ggtgactgtc 300
atccttatgg cattttgtgt ctacaagccc attcggcgtc ggtgacagcc agacaagttc 360
ttcaatgagt atttgggaat aggataagtt gtgttgaca caggccagtg gagaagttgg 420
aaccaaaact ttctacttg gaaatgacct ttgggtctgga cagtttgtaa atgctaaatg 480
aagtagaaga aaacatgtac tagacattat ttttcttaa cactgtagcg caaataattg 540
gcccctgagt ccgcttctca gtgtttctga ctgtacttgt taaaagtaag acctgaaagc 600
tccaaaggtc agtgtaaaga tggagtgttc atgagaaaga aaacatggta accttgtgag 660
tgccgtgaag aaccacactg taaagaactc atcattaatg cttgaaaatg ttattaagaa 720
ggagacttac catgcagaca ttccctattt aagaaccatt tggttacagt gggttaagaa 780
tcacagattt ttttttttaa tctcacctga gttagcctag aatgcgctgg ttgcaaagtg 840
gtgtcagctg tggggatctt gggccctcgt tctcacctg catcctgcc tgcactcagg 900
tgctccccct gaagtcaggg tcacatcagg tagacctgtt actatatgca cctttggcct 960
ggaatgctct gaagtgggac tggaaatgtt actaggttgg cctgttacia aaaggacccc 1020
atcctgctta aacacattga tctcccttgc cctgcatttg agtctttcta gccacgggtc 1080

```

tgaaacttga	ggcagctttc	cagatttggga	atgtaaaagg	ctcagtgggc	actctgttca	1140
tccctgggtg	gggagggccc	agccaacaga	aatgcatgtc	cactgtgcgg	gccagtgtgt	1200
gtttacacaa	atttcatctc	agctttgaaa	atgctgctat	tagtttccac	tgttggtgaa	1260
ctggattttt	tcctcctatt	gaaatgatac	tttcatactt	ataaagctgt	cgtcaatatt	1320
tatttcaagg	tgctagattt	aattttgtta	ttaaattgaa	atgcttatct	tgtgttcaag	1380
cacagcactg	attttaacaa	cctgcattta	atgtgaagta	accgaagtag	gatactgtaa	1440
ctgtgtaagg	attttgtttg	taatcttgta	acattgaacc	attgaaatgt	tcagttcttt	1500
gcttttgagc	aaaacgtcaa	ttaaaactaa	agtaaaatcc	t		1541

<210> 10505  
 <211> 1978  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (85).. (354)

<400> 10505						
gtgcctgatg	gggccggttg	gcggccggta	gctgttgctg	ttggggggacc	ccctcattcc	60
tgccgctgcc	gtccctgctg	cctcatggcg	gccatcggag	ttcacctggg	ctgcacctca	120
gcctgtgtgg	ccgtctataa	ggatggccgg	gctggtgtgg	ttgcaaatga	tgccggtgac	180
cgagttaact	cagctgttgt	tgcttactca	gaaaatgaag	agattgttgg	attggcagca	240
aaacaaaagta	gaataagaaa	tatttcaa	acagtaata	aagtaaagca	gatcctgggc	300
agaagccaga	aatgcggtcc	ttggacctgg	cttctcagct	tctccgaaat	cagatagtga	360
ctgacccaga	caacttaatg	gaggatgctg	cttgggcca	gcactgtgat	cagaacttag	420
tggcctctga	cgccccaggg	gaagagggaa	ccggcattct	aaaatcaaaa	aggactcagg	480
cagctgatca	tcagcctatc	ttgaaaacag	ttaaggcatc	agatgaggat	tgtcagctaa	540
gaatcagtga	ccggatacga	gaaaccagtg	accttgagga	ctcctgggat	gaatcctcgg	600
gtgcagggtg	ctctcaaggg	acccccagct	acagcagctc	ccacagcctt	ttcagagggtg	660
cagttgctcc	ctgtcagagc	agccccatgg	ccagactggg	tgtgtccggg	gagcccagcc	720
cctgcaccag	caccaaccgc	agcactcctg	gggtagcctc	cacaccgcag	actccagtct	780
cctcttcgag	agctggtttt	gtttctgggtg	gggataggcc	cttgaccagt	gagccccctc	840
caaggtgggg	aaggcgaaga	aggcggtcag	tggccaggac	tatcgcagcc	gagttggcag	900
aaaacaggcg	attggcacga	gaactctcaa	agcgggagga	agaaaaactg	gacaggctga	960
ttgctattgg	tgaggaggcc	agtgtctcagc	aagatactgc	caatgagctc	cgcagggatg	1020
ctgtcatogc	agtcagacgt	ttggcaacag	cagtgggaaga	ggcaactggg	gcttttcagc	1080
taggccttga	aaaattgctt	cagagggttga	tttcgaatac	caaaagctag	gaaccaatta	1140
caaaaggctc	tgcttcctaa	actggttagaa	gtctagtctc	caaacctgcc	ttctgaatcc	1200
ctggctcctt	ttctgtgtcc	tcagaaaaaa	acatggatga	accatttata	tccagatagt	1260
atgaaaaata	ttgctagtct	attttcccaa	gattctccac	caaattggaag	acctttcaga	1320
aatgccaggg	gtgacctaat	agaaaacgat	ggagccacgt	tctagacagc	tggttcatcc	1380
tagctttgtc	acagatgtga	agcagtttac	ctccctccag	tggtttcctc	atccgtaaaa	1440
tggggatcaa	taataactcc	tgccctgcct	acctcacagg	gttggtgtga	ggatcacgta	1500
gttcatagat	gtgaagggtt	ttaaaagttt	aaaagcactg	tacacattta	agttattaat	1560
tcatatggcc	ttggctgagg	taaggcagat	tggtttacia	gatacagaag	tatggatata	1620
tactgtgact	tcattgcttg	aatctttcct	ttgctggtct	aacttgactg	cttcatggag	1680

0962469.02800

tttgaaatct taatttttaa aatccctgtg tggctcatta gacgactata agcacaacct 1740  
gtatttgtac cttaatctct tacatttcca ctgctgtgta tctgacatat ctactagtaa 1800  
gcactgtttt gtcaaaccgt cttctctccc ttcatTTTtac tggttcttag tctcctatca 1860  
atataaggaa ataagaagtg ccagggagcc gccattgtgt gttacggttt atatcgataa 1920  
tcttcaatat aaaatactgg ccattttata aaatattaaa tatatgtaaa ttctttgc 1978

<210> 10506  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 10506  
Met Ala Ala Ile Gly Val His Leu Gly Cys Thr Ser Ala Cys Val Ala  
1 5 10 15  
Val Tyr Lys Asp Gly Arg Ala Gly Val Val Ala Asn Asp Ala Gly Asp  
20 25 30  
Arg Val Thr Pro Ala Val Val Ala Tyr Ser Glu Asn Glu Ile Val  
35 40 45  
Gly Leu Ala Ala Lys Gln Ser Arg Ile Arg Asn Ile Ser Asn Thr Val  
50 55 60  
Met Lys Val Lys Gln Ile Leu Gly Arg Ser Gln Lys Cys Gly Pro Trp  
65 70 75 80  
Thr Trp Leu Leu Ser Phe Ser Glu Ile Arg  
85 90

<210> 10507  
<211> 1457  
<212> DNA  
<213> Homo sapiens

<400> 10507  
aagagatgac aaggtaacat ggacgttttag gctccaggaa actttaagac aaattaacgt 60  
aaaaatgggt tctgggctgg taataccctt ggtgtttctg ttaaaaacat gaagaacggc 120  
tgggcgtggg ggctcacgtc tgtaatccca gcactttggg aggccgaggc ggggtggatca 180  
cctaagggtc agagttcgag accagcttga ccaacctgga gaaaccccat ctctacttaa 240  
aaaattaagg catcctacat gcctgtaatc ccagctactc agaaggctga ggcaggagaa 300  
tcgcttgaac ctgggaggcg gaggttgtgg tgagccgaga ttgcgccatt gcactccagc 360  
ctggggaaca agagaaactc tatctcaaaa aaaaaaaaaa aaaaaaaacc tgaaaaaacat 420  
tttctggagg aaatttcatg gtttagatca caaggaattt cagataaagc aagccttgca 480  
aaagatatgt tcatagtaaa ttgcagagct ttaggaaaca tttoactgaa atgagagtca 540  
atgacaaaata ggattagagc ctctaacagg ttatctgaga gaatattttt atgtttaaaa 600  
ttgttaaaat aaacctaaag gaaggaatca accctaagat caaggttggc cgggtgcggg 660  
ggctcatgcc tgtaatccca gcccttggg atcctgaagc aggtggatca cctgaggatca 720  
gaagttcgag accagcctgg ccaccatggc gaaaccccat ctctactaaa agtataaaaa 780  
ttgccagggt aggtggcggg aacctgtaat ccagatcct tgtgaggctg aggcaccaga 840  
attggttgaa gctaggaggc agaggttgca gtttgagaca ctgcactcca gottgggtga 900

09629469.072800

```

cagagcaaga ctctgtctca aaaaaaaaaa aaaaaaaaaa aagatcaagg tgtaataaaa 960
acaagccaca tagatttgaa aaagaatcaa gtaaaacgtt tagaattaat taggaaaagt 1020
gaataagttg gaatagcaga cctagcagaa gaaagaatta cagatatgat ggatgtgact 1080
tatctcacag atgtggaagg tagatgtgat cttccagcat tcaattcagg gggataagat 1140
atgaaaatga aaggtttcag gcatggtggc tcatgcctat aatcccagca ctttaagagg 1200
ctgagggtggg tagatcgct gagctcagga gtttgaaaac agcctgggca acgtgatgaa 1260
actcccgtct ctacaaaata cagaaaagat cagctgaatg tggcggatg catgtgtagt 1320
cccagctact cgggagggtt aagtgggagg attgcttgag cccaggaaat cgaggctaca 1380
gtgagctgtg attgtcctac agcacttcag ccttggcaac agagcgagac cctgtcccc 1440
ccccccgca aaaaaag                                     1457

```

<210> 10508  
 <211> 1502  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (42).. (1502)

```

<400> 10508
cagaaaagca aaaaccagag gtcaagaaaa gcagtccaga gatggaggat gctcgcgtgc 60
tttcaaaaaa gcagcctgac gtgtcctcta gagaggtoat totgtgtagg gaaggagagg 120
ctgaaagaaa gcctgtgagg aaagaaattc ttaaaagaga atctaaaaaa atcaaaactgg 180
acagacttaa tactgttgcc agcccccagg actgtcagga gottgccagt atttctgttg 240
ggtctggctc aaggcccagc tcagacctac aagcaagact gggagaacca gcaggatgaat 300
ctgtggaaaa tcaagaagtc caatcaaaaa agcccattcc ctcaaaacca cagctcaaac 360
agctgcaggt attagatgat caaggaccag agagagaaga cgttaggaaa aactattgca 420
gtcttcgtga tgaacacct gaacgtaaat caggccaaga gaaatcacat tcagtaaata 480
ctgaagaaaa aattggcatt gacatcgatc acacgcagag ttaccgaaaa caaatggaac 540
agagtcgtag gaaacagcag atggaaatgg aaatagccaa gtctgagaag tttggcagtc 600
ctaaaaaaga tgtagatgaa tatgaaagac gtagcctcgt tcacgaggta ggcaaaccac 660
ctcaagatgt cactgatgac tctcctccta gcaaaaagaa aaggatggat catgtcgatt 720
ttgatattct caccaagcga gaacggaatt acagaagttc acgccaatc agcgaagatt 780
ctgaaaggac tgggtggttct ccagtggtcc gacatggttc cttccatgaa gatgaggatc 840
ccataggctc ccctaggcta ctgtcagtaa aagggtctcc taaagtagat gaaaaagtcc 900
tcccctattc taacataaca gtcagggaag agtctttaaa atttaatcct tatgattcta 960
gcaggagaga acagatggca gatatggcca aaataaaaact atctgtcttg aattctgaag 1020
atgaaactaaa tcgttgggac tctcagatga aacaggatgc tggcagattt gatgtgagtt 1080
tcccaaacag cataattaag agagatagcc ttcgaaaaag gtctgtacga gatctggaac 1140
ctggtgaggt gccttctgat tctgacgaag atggtgaaca caaatccac tcaccagag 1200
cctctgcatt atatgaaagt tctcgattgt cttttttatt gagggacaga gaagacaagc 1260
tacgtgagcg agatgaaaga ctctctagtt ctttagaaag gaacaaattt tactcttttg 1320
cattggataa gacaatcaca ccagacacta aagctttgct tgaagagct aaatccctct 1380
cttcattctg tgaagaaaat tggcttttct ttgattggga ctcccgattt gcaaattttc 1440
gaaacaacaa agataaagaa aaggttgact ctgctccaag acctattcca tcctggtaca 1500
tg                                                    1502

```

<210> 10509  
 <211> 487  
 <212> PRT  
 <213> Homo sapiens

<400> 10509

Met	Glu	Asp	Ala	Arg	Val	Leu	Ser	Lys	Lys	Gln	Pro	Asp	Val	Ser	Ser
1				5					10					15	
Arg	Glu	Val	Ile	Leu	Leu	Arg	Glu	Gly	Glu	Ala	Glu	Arg	Lys	Pro	Val
			20					25					30		
Arg	Lys	Glu	Ile	Leu	Lys	Arg	Glu	Ser	Lys	Lys	Ile	Lys	Leu	Asp	Arg
		35					40					45			
Leu	Asn	Thr	Val	Ala	Ser	Pro	Lys	Asp	Cys	Gln	Glu	Leu	Ala	Ser	Ile
	50					55				60					
Ser	Val	Gly	Ser	Gly	Ser	Arg	Pro	Ser	Ser	Asp	Leu	Gln	Ala	Arg	Leu
65					70					75					80
Gly	Glu	Pro	Ala	Gly	Glu	Ser	Val	Glu	Asn	Gln	Glu	Val	Gln	Ser	Lys
				85					90					95	
Lys	Pro	Ile	Pro	Ser	Lys	Pro	Gln	Leu	Lys	Gln	Leu	Gln	Val	Leu	Asp
			100					105					110		
Asp	Gln	Gly	Pro	Glu	Arg	Glu	Asp	Val	Arg	Lys	Asn	Tyr	Cys	Ser	Leu
		115					120					125			
Arg	Asp	Glu	Thr	Pro	Glu	Arg	Lys	Ser	Gly	Gln	Glu	Lys	Ser	His	Ser
	130					135					140				
Val	Asn	Thr	Glu	Glu	Lys	Ile	Gly	Ile	Asp	Ile	Asp	His	Thr	Gln	Ser
145					150					155					160
Tyr	Arg	Lys	Gln	Met	Glu	Gln	Ser	Arg	Arg	Lys	Gln	Gln	Met	Glu	Met
				165					170					175	
Glu	Ile	Ala	Lys	Ser	Glu	Lys	Phe	Gly	Ser	Pro	Lys	Lys	Asp	Val	Asp
			180					185					190		
Glu	Tyr	Glu	Arg	Arg	Ser	Leu	Val	His	Glu	Val	Gly	Lys	Pro	Pro	Gln
		195				200						205			
Asp	Val	Thr	Asp	Asp	Ser	Pro	Pro	Ser	Lys	Lys	Lys	Arg	Met	Asp	His
	210					215					220				
Val	Asp	Phe	Asp	Ile	Cys	Thr	Lys	Arg	Glu	Arg	Asn	Tyr	Arg	Ser	Ser
225					230					235					240
Arg	Gln	Ile	Ser	Glu	Asp	Ser	Glu	Arg	Thr	Gly	Gly	Ser	Pro	Ser	Val
				245					250					255	
Arg	His	Gly	Ser	Phe	His	Glu	Asp	Glu	Asp	Pro	Ile	Gly	Ser	Pro	Arg
			260					265					270		
Leu	Leu	Ser	Val	Lys	Gly	Ser	Pro	Lys	Val	Asp	Glu	Lys	Val	Leu	Pro
		275					280					285			
Tyr	Ser	Asn	Ile	Thr	Val	Arg	Glu	Glu	Ser	Leu	Lys	Phe	Asn	Pro	Tyr
	290					295					300				
Asp	Ser	Ser	Arg	Arg	Glu	Gln	Met	Ala	Asp	Met	Ala	Lys	Ile	Lys	Leu
305					310					315					320

09629469.072800



Ser Val Leu Asn Ser Glu Asp Glu Leu Asn Arg Trp Asp Ser Gln Met  
325 330 335  
Lys Gln Asp Ala Gly Arg Phe Asp Val Ser Phe Pro Asn Ser Ile Ile  
340 345 350  
Lys Arg Asp Ser Leu Arg Lys Arg Ser Val Arg Asp Leu Glu Pro Gly  
355 360 365  
Glu Val Pro Ser Asp Ser Asp Glu Asp Gly Glu His Lys Ser His Ser  
370 375 380  
Pro Arg Ala Ser Ala Leu Tyr Glu Ser Ser Arg Leu Ser Phe Leu Leu  
385 390 395 400  
Arg Asp Arg Glu Asp Lys Leu Arg Glu Arg Asp Glu Arg Leu Ser Ser  
405 410 415  
Ser Leu Glu Arg Asn Lys Phe Tyr Ser Phe Ala Leu Asp Lys Thr Ile  
420 425 430  
Thr Pro Asp Thr Lys Ala Leu Leu Glu Arg Ala Lys Ser Leu Ser Ser  
435 440 445  
Ser Arg Glu Glu Asn Trp Ser Phe Leu Asp Trp Asp Ser Arg Phe Ala  
450 455 460  
Asn Phe Arg Asn Asn Lys Asp Lys Glu Lys Val Asp Ser Ala Pro Arg  
465 470 475 480  
Pro Ile Pro Ser Trp Tyr Met  
485

<210> 10510  
<211> 1705  
<212> DNA  
<213> Homo sapiens

<400> 10510  
aaatttttagg agattctttg aataaacctc atttagtctc tctcctataa aaggaaaagc 60  
agaacctcaa gtccacattt attttgcatt tgctctcttg ttcacattct tctctatgtc 120  
aataaaagtt agatggcatt ttttatagct gtgtatcaaa tatgtgaata tagaattcca 180  
actaaaatag caatagatgg gaaaactttc tagttcattc attgtcaaaa gtgagtgtcg 240  
agaggacatc tgaagcccca cctaaaagta aatcctcagc aggaaagata atgcagataa 300  
attttgggtc caaattctta atctgggcaa agaaagaaaa caaacacact tactagatgg 360  
atttttcata aaagttcctt tccatgctgt ccaaagtgat taaattagtc atccattctt 420  
ttatctcttc tgttgataat catataagca actcctgaat ctatatgagt attcagtctt 480  
ctttattatt cagaagattt gccattttag tcaactcaaa tatcagtact atttcatagc 540  
atgctagtgc aggttacaca aagcccacca ggtacacctg gaatctagcc agaatgcagt 600  
ccaatcatga gcaactttaa catttacctc attttactat ttgtcttaga gctatggaaa 660  
cattattctg tttctggagt atctcacact tcaggagcat tagttgaagc agtacagata 720  
cagttagtgt cctctctgga cattcatttg ttaactttga aacaactgga ttcaaagacc 780  
ttaagttaaa aacaaactta ttgcctattt atggaagaaa aacctgttat tttattctgg 840  
tttaaaagtt aaaagcgttg cctctaccac tggataacct gtttgcacaa ttaaattgatt 900  
tcgggagtta aaacattatg attataaatt ttctctgaat aagttgatag gagattattc 960  
ctgttcttat aatgaggttt ttcccttagc acttttcaag tgtgcctttc aaccaatgat 1020  
atgtttttta aaaataatgt aacttaagta cttatgatt aacctatcat gagtctagaa 1080

009270.69462960

aatgtggaga	ttctaaaaca	gtattgtctg	aaaacataga	atagttggac	ttaatgttct	1140
cttcagaaaa	tctaactgta	aacttgggtac	tttccctacag	ttcacttgtg	aaaaataata	1200
tctatgaaga	tggagagatt	cctaaaggaa	ttccactatt	ttacccataga	gccccaaagt	1260
tccttgaccc	aagcaagacc	atcaaggagc	tatctggatt	gtatgatact	ggacctcagt	1320
agaactactt	ttactgaatt	gctggagcca	aaactaggct	gcagcaagag	aaggcaatta	1380
gggtacaaaa	tctaaggaag	ctgtcattct	gaggatcata	tgatagatgc	tgggttaaga	1440
catatggctg	ggcatgggtg	ctcatgcctg	taatcccagc	cctttgagag	gccaaggcag	1500
gtggatcact	tgaggtcagg	agttcaagac	cagcctgggc	aacatggtga	aacccccacat	1560
ctactaaaaa	tacaaaaaca	gctgggcgtg	gtggcatgga	cctctaatac	cagttactta	1620
ggaggctgag	gcaggagaat	agcttgaacc	caggagggtg	acgttgacgt	gagccgagat	1680
catgccactc	gactccagcg	tgggc				1705

<210> 10511

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 10511

atttgacatg	ctgcttcctt	tctgatgggc	tctaacttca	gcttttcggt	ctcattcaga	60
gtagagaaat	taacagattt	tactggcggg	tgttttcaga	ttaagaaact	caaagggcag	120
ctggaggaga	gacagaagat	tggcaaaacta	gacaatcttc	gatctgaaga	tgatgtcttg	180
gaaaaacggga	cagacatgca	tgtaatggac	ctacaaagta	aatgtcaatt	cttgtgtaga	240
agtaaatgct	ttcacatgtg	ctgttttagt	atacttgtgc	tggcagagaa	aactgtcacg	300
gcaaaagaatg	ccctcattcc	ctcacatccc	cacaaaagcc	cttaaaaaata	aaagcacaaag	360
gaggggtagg	tagacagaac	aatgggtgtt	ctctctgagc	ctatgaaata	gaacaggtac	420
ccaaaaacgt	gcaccaagat	accaccacat	gttgtgcga	tggaaaccac	atttactttg	480
ctggatacag	caatctttcg	atctgttgat	tgtatgaaaa	aaaaaaaaaat	gaaaggcttt	540
tttcatgcta	ataaactaga	aacagtctta	agggagataa	aattatgcc	agtctctctc	600
cgcccttttc	cctacccctt	accatctctt	tgtcttcttc	actcataggc	actctcttgc	660
ctgaggtttc	ctgccccaa	cacaggggog	gaaggcactt	tccttgggtt	catggggaga	720
gagtgccttc	tcctactctc	agctctggga	ggttgtggag	gcagggccag	aactaacaga	780
tttgtgagat	gattacaaag	taagggtctg	gttccagta	actattgttt	taatatttga	840
aaagcccaag	agcttaacag	attttccttc	tctttcaacc	tttaggggat	gccaacagac	900
agatcagcga	cctcaaattt	aaacttgcaa	aatctgagca	agagataact	gcattagaac	960
aaaaatgtaat	aaggttagag	agtcaagtat	cacgttacaa	atcagcggct	gaaaatgcag	1020
aaaaaataga	agatgaactt	aaggcagaaa	aacggaaact	ccaaagagag	ctccgctctg	1080
cattggataa	aacagaagag	ctcgagggtga	gcaacggcca	cttagtgaag	cgtctggaaa	1140
aaatgaaagc	aaatcggagt	gcactcttgt	cccagcagta	aattccagct	ctgatcaggc	1200
aactggttgg	tgactggaga	gcattgtttc	ataggctttt	ctctgtcctg	tctggggagcg	1260
ctgcttcttc	ccctgccttc	tgagagacga	agaccgtggc	gagottggcg	tttaggggct	1320
cccgtgccat	ggctcaccoc	agggagcccc	agcagccacc	aggtgcctct	gtctgcagac	1380
ccctggccccg	ggctggcgcc	gacgctcaga	acctgcagg	acttcataag	cacacagggg	1440
cctcgaggga	gctctgtgtc	tgaccgcaca	gcagcctctg	aatgocgctg	gaagtgatga	1500
tcaaagtaaa	gattcagttg	ggacttgagt	ttttttttt	ttcatgtgtc	ttgctgaaga	1560
ttaaggggaa	atgttacagt	gttgggactt	cctttcatgg	cagaatctac	aatttgagcg	1620
acttcagtag	tatctcttag	tctacgcttt	tcatacacia	aacactgtgg	aaccacaagc	1680
cattaccaag	caaaactctt	tcactggaaa	caagggggca	gtctagaagt	aaaagtgacc	1740

ttaagaagac	tctttacagg	caacaaatga	agcttttcta	agggattttt	gcatcagttc	1800
agtcataaga	atactttttt	ccagggtaat	taggcaatag	cttcactgaa	aatgacagct	1860
tttcattgca	ttatttaatc	cttatatttg	gaattgaagt	cgtaaacttc	ttttaaagaa	1920
tgtactatta	gaaaaattaa	aaatgaaatg	ttgagag			1957

<210> 10512  
 <211> 1691  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (136).. (558)

<400> 10512

gtgccagagg	gccacgacca	ggtgtcctgc	caagcccacg	tgaatgagct	gatcaaaacc	60
atcatcatcc	agcatgagaa	catcttccca	agccccaggg	agctggaggg	ccctgtctac	120
agcagaggag	gaagcatgga	ggattactgt	gatagccctc	atggagagac	tacctcggtt	180
gaagactcaa	cccaggatgt	gaccgcagag	caccacacga	gcgatgacga	atgtgagccc	240
atcgaggcca	ttgccaaagt	tgactacgtg	ggccggacag	cccagagagct	gtcctttaag	300
aagggagcat	ccctgctgct	ttaccagcgg	gcttccgacg	actggtggga	aggccggcac	360
aatggcatcg	acggactcat	cccccatcag	tacatcgttg	tccaagacac	cgaggacggg	420
gtcgtggaga	ggtccagccc	caagtctgag	attgagggtca	tttctgagcc	acctgaagaa	480
aaggtgacag	ccagagcggg	ggccagctgt	cccagtgagg	gtcatgtagc	cgatatttat	540
cttgcaaaaca	tcaacaagta	agctctgctt	ttcattttct	gotccccctga	atgacttgca	600
acacccagcc	tcaccctctg	gcctaaccoc	catctccatt	cctgtgctgc	acgtagggct	660
cccagctccc	ccagcctaac	agtttgcatg	tggctcattgc	tgctgcaagg	cggacagggc	720
tgaggatgct	gtacaagcc	tccggggcagg	tccaggtctc	cagctagctg	ccctcgtgct	780
gtggaagggg	gctttactgt	gtgttcccgc	agtgtctgtc	caccagacc	tttgtggcag	840
tottacagct	aaaactttga	ccaaagcttt	ggtcacttta	tgcaacctgg	ttttgtactg	900
tttctcagag	gtgccttctt	ttttccaatc	catactcaaa	taatagtctt	tgatgtctgt	960
cttccctgac	ccgtgttcgt	gcaaagattc	agagtctgtg	tgtggcttct	actaggctga	1020
tgttacacca	ggtgggttta	ttgagatata	atgtgtctgt	tcctccccct	gtcctgcatt	1080
cactcctgtg	gaggaaagga	ggccacgatg	tccctaagga	aagctttgtc	ctgagctctt	1140
cattcattgg	ctaaccctta	gctccctttt	cttctgccct	ttcacaccag	gagaaataat	1200
tttccatttt	gttcctattg	ctttggcctt	ttgtattatt	ctacccccct	agtccctttg	1260
cagatcccca	ctcctgctca	gcaggctctt	acctctgacc	cccagctttc	attgtggctg	1320
ttagcaacat	cctgggggtt	aaaccccacc	cacgcccgat	ctggctgtct	agagggtatt	1380
tacgcctgcg	tgctgccgcc	tccccaagag	gcattcaggt	tattggagaa	ctaattctcat	1440
ctcaaggggc	cagacaccaa	gtcccaaagc	ctacagacct	ctttccgcca	ggccctgaaa	1500
cctggccccc	tgccagcagg	atgacaagcc	ccagggcgct	cctgatgaat	atggattgga	1560
gatgatgtac	agtttttatt	cccctctggc	ttttgaggaa	tgaaatgatt	tgcactttga	1620
aaacctgtta	accgtagcct	ctggacactg	agactggaag	gagaataaag	gatgcttggt	1680
gtttttaaac	t					1691

<210> 10513

09629469.072800

<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 10513

Met	Glu	Asp	Tyr	Cys	Asp	Ser	Pro	His	Gly	Glu	Thr	Thr	Ser	Val	Glu
1				5					10					15	
Asp	Ser	Thr	Gln	Asp	Val	Thr	Ala	Glu	His	His	Thr	Ser	Asp	Asp	Glu
		20						25					30		
Cys	Glu	Pro	Ile	Glu	Ala	Ile	Ala	Lys	Phe	Asp	Tyr	Val	Gly	Arg	Thr
		35					40					45			
Ala	Arg	Glu	Leu	Ser	Phe	Lys	Lys	Gly	Ala	Ser	Leu	Leu	Leu	Tyr	Gln
	50					55					60				
Arg	Ala	Ser	Asp	Asp	Trp	Trp	Glu	Gly	Arg	His	Asn	Gly	Ile	Asp	Gly
65					70					75				80	
Leu	Ile	Pro	His	Gln	Tyr	Ile	Val	Val	Gln	Asp	Thr	Glu	Asp	Gly	Val
			85						90					95	
Val	Glu	Arg	Ser	Ser	Pro	Lys	Ser	Glu	Ile	Glu	Val	Ile	Ser	Glu	Pro
			100					105					110		
Pro	Glu	Glu	Lys	Val	Thr	Ala	Arg	Ala	Gly	Ala	Ser	Cys	Pro	Ser	Gly
		115					120					125			
Gly	His	Val	Ala	Asp	Ile	Tyr	Leu	Ala	Asn	Ile	Asn	Lys			
		130					135					140			

<210> 10514  
<211> 1672  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (31).. (474)

<400> 10514

gagtgttcgg	gacgcggggcc	tgccaggcgcc	atgggtcttcc	tcaccgogca	gctctggctg	60
cggaatcgcg	tcaccgaccg	ctactttcgg	atccaggagg	tgctgaagca	cgccaggcac	120
ttctggggaa	ggaaaaatcg	ctgctacagg	ttggcgggtca	gaaccgtgat	togagccttt	180
gtgaaatgca	ccaaagcccg	atacctgaag	aaaaagaaca	tgaggaccgt	aagcgtggac	240
ccgggacacc	cgccggccag	cgcaactcgcg	gcccctgcgt	ttctgogcgg	cgaccagct	300
agtgtgcagc	cgcccggccg	ccctcagccc	cttcctttca	taccttgctt	cgaaactccg	360
acaaattatg	tgcgcccgca	ggcaaaactgt	gggacatccg	ttctcccgcc	cgcccgccac	420
ccccactgtc	acccctgct	ccagcccctc	gcccggggcca	ctgcagagcc	gccttgacac	480
ttctccctgcg	tgcagagcca	ccgcccctagt	cgctgctgct	ctcatccctc	cgggtggcttc	540
ccttcccttt	ggcagctgaa	gtcaaccag	ccccttgcca	accctccagg	gctactatct	600
gctgccgtgg	tgctcctcga	agagaccacg	cctgctgcca	agctctgccc	accgggaacc	660
ccccgcattt	ctgggaggct	ggcgccctcca	ctctgtccac	gtgccgcctc	attactgcgc	720
ctcaccactc	cgtctcagc	ctcatgaacc	tagcatctaa	cgtaccccg	tttttttttc	780

009220.69462960

```

ttaccccgag acggagtctc gcgctgtcac ccaggctgga gtgcaatggc gcgatctagg 840
cttaatgcaa cctcgtctcc cgggttcaag cgattttccc gcccagctct cccgagtaac 900
tgtgactgca ggtgtgcgcc accaagctat tttttgtatt tttagtagag accgggttcc 960
gccatgttgg tcaggctggt ctggaactcc agatctgaaa tgatctgcct gccttgcctt 1020
cccaaagtgc tgggattaca ggctgagac accgtgccc gctgggtttt tgctgttttt 1080
aattttgaaa cagggtcttg atttcgttta ggccagagtg atggcaccat catagctcac 1140
tgattttgct atttactttt agaaaaatat tcttttagatc aattagaggc tttgctggga 1200
cataacatcc agaagtcatt ttttaagtatc ttcatgtttt ottatttcag ctctggatta 1260
atcgaattac agctgctagc caggaacatg gactgaagta tccagcgcctc attgggaatt 1320
tagttaagtg ccagggtggag ctcaacagga aagtcctagc ggatctggcc atctacgagc 1380
caaagacttt caaatctttg gctgccttgg ccagtaggag ggcacacgaa ggatttgctg 1440
ctgccttggg ggatgggaag gaacctgaag gcattttttc cagagtgggtg cagtaccact 1500
gaggactgtt gctgtattga ttaggaaaag agacagagta atttgcagtt tgtttgattt 1560
atacttttgt ttatctacaa cccaataaca gacatgaggg atggccctgt ctctctggga 1620
cagagcctca aagatgatgt ccatgttttg tgtgaatgaa actcaaacac tc 1672

```

<210> 10515  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<400> 10515

Met	Val	Phe	Leu	Thr	Ala	Gln	Leu	Trp	Leu	Arg	Asn	Arg	Val	Thr	Asp
1				5				10						15	
Arg	Tyr	Phe	Arg	Ile	Gln	Glu	Val	Leu	Lys	His	Ala	Arg	His	Phe	Trp
			20					25					30		
Gly	Arg	Lys	Asn	Arg	Cys	Tyr	Arg	Leu	Ala	Val	Arg	Thr	Val	Ile	Arg
		35					40					45			
Ala	Phe	Val	Lys	Cys	Thr	Lys	Ala	Arg	Tyr	Leu	Lys	Lys	Lys	Asn	Met
	50					55				60					
Arg	Thr	Val	Ser	Val	Asp	Pro	Gly	His	Pro	Pro	Ala	Ser	Ala	Leu	Ala
	65				70					75				80	
Ala	Pro	Ala	Phe	Leu	Arg	Arg	Asp	Pro	Ala	Ser	Val	Gln	Pro	Pro	Gly
			85					90					95		
His	Pro	Gln	Pro	Leu	Pro	Phe	Ile	Pro	Cys	Phe	Glu	Thr	Pro	Thr	Asn
		100						105					110		
Tyr	Val	Ala	Pro	Gln	Ala	Asn	Cys	Gly	Thr	Ser	Val	Leu	Pro	Pro	Arg
	115					120						125			
Arg	His	Pro	His	Cys	His	Pro	Leu	Leu	Gln	Pro	Leu	Ala	Arg	Ala	Thr
	130					135					140				
Ala	Glu	Pro	Pro												
145															

<210> 10516  
 <211> 1601  
 <212> DNA

09629469.072800

<213> Homo sapiens

<400> 10516

```

ggaaacatgc agcatgtagt aatttatgac agcttctttc acttagcatg aggttttcaa 60
agttcattga tgtggttagca ttgttcagta ctctgtgcct ttttatggct gaataatatt 120
ttatcatatg gatttaccac attttatcat tttatttato catcatcagt tgattgacat 180
ttgagttgct tctacttttt gagtattatc aataattctg ttatgaacat tcttgtacaa 240
tttttttgta gacattttatc ttcatatttc ttggatatat acctaggagc agaattgctg 300
cgtcagatgg taatgctggt taaccttttc aggaactgtc agactgttct gaagtgggta 360
cattatttta cattccaacc agcagtgatg gagaattcca gtttcccccac atcctcatca 420
acagttggtt ttgtctgtct tttttattat attcatctgt aatgtgaagt gtttatctca 480
ttgtggtttt gatttacatt tccctgatgg ttgatgattt tcaacatctt ttcatatact 540
tattagtcac tatgtatctt ctttggagaa tgtctgttca gatcctttac ctactttata 600
attggtttat ctttttaata ttgaactgtc atagttttta aaaaatatac cctaaataca 660
agtctcttat cagataatat gatttgcaga tattttctgt cattctatgt actgtctttt 720
cacattcttg atgatagact tttcagccca aatgttttta acttgatgga atacaattta 780
ttttttcttt tgttgcttgt gctttcagtc atatttgtga aaactttgct tatcccacat 840
tacaaagatt tactatttct aagtgattta taattttacc acctaccttt aggtctctga 900
tccattttga gttaattttt atgtgcgagg agggagtcta acttgattct tttacatgtg 960
gatatttagt tgtcccagga ccatttgttg aattaagtgc ccagaacaag tacatctata 1020
tatagagaaa gtagattagt ggttgtcaga gactgtaaga agtgggggaat tggagagtga 1080
ctgcccatag gtacaggcat gctttttggc attatgaaaa tattctggaa ttaggtagtg 1140
gtgatgggtg cagaactttt ggaatatggt aaaagacact gaaatatatg cttaaaaaatg 1200
gtgatttttg tgatatatga attatactat agaactaata ataacagtaa taaagcaagg 1260
tgtctttcca catctccatg ccttgtattt tcattaaaaa aaaaaaaaaa aaagcatttc 1320
agggccaggc tcagtgggtt actcttgtaa tcccagcact tttggaggcc taggtgggag 1380
gatcacttga ggccagaagt tcaaaaccag cctgagcaac atagcaagac cttgtctcca 1440
tgaaaaataa aaaattagcc agaaatggtg atgtgtgcct agagttccaa ctacttggaa 1500
agctgaggca agaggatcgc ttgagcctag gagttcaagg ttgcagtgat ctataatcac 1560
cactgcactc cagcctgggt gacagaacaa gaccctgtct c 1601

```

<210> 10517

<211> 1770

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (54).. (1181)

<400> 10517

```

agctggccccg cttgaggcgt aggggggtggc gctctccgtt cggcggcgct cccatggcgc 60
acattaccat taaccagtac ctgcagcagg tgtacgaagc catcgacagc agagatggag 120
catcttgtgc agagttggtg tcttttaaac atcctcatgt tgcaaaccac cgacttcaaa 180
tggcctctcc agaggagaag tgtcaacaag tcttgggaacc cccttatgat gaaatgtttg 240
cagctcattt aaggtgcact tatgcagtgg ggaatcatga cttcatagag gcatacaagt 300
gccagaccgt gttagtccaa tcattcttgc gagtgtttgc caataatgca gatcaacagt 360

```

09629469.072300

```

tggtaaaagaa aggaaaaaagc aaagttgggg acatgttggg aaaggcagca gagttaatga 420
tgagctgttt ccgggtctgt gccagcgaca cccgtgctgg tatagaggac tctaagaagt 480
ggggcatgct gtttctggtg aaccagctgt ttaaaatcta cttcaagatc aacaaactcc 540
atztatgtaa acccctaatt agagcaattg acagctcaaa cctgaaagac gattacagca 600
ctgcacagag agtaacatac aaatactacg ttggacgcaa ggctatgttt gacagcgatt 660
ttaagcaagc tgaggagtac ctgtcatttg cttttgagca ttgtcaccgt tctagtcaga 720
agaacaaaag gatgattctg atctatttgc ttccagtaaa aatgctattg ggtcacatgc 780
ccactgtgga gctcctgaaa aagtatcacc tgatgcagtt tgcggaagta accagagctg 840
tgagcgaggg caacctgctg ctgctgcacg aggcgctggc gaagcacgag gccttcttca 900
ttcgtgcgg aatcttcctc atcctggaga agctgaagat catcacctac aggaacctct 960
ttaagaaagt gtatttgta ctgaaaacac accagctgtc tctggatgct tttctggttg 1020
ccttgaagtt catgcaggtg gaggacgtgg acattgacga agttcagtg attctggcta 1080
acttgatata catgggacac gtcaaaggct acatatcgca tcagcatcag aagctggttg 1140
tcagcaagca gaaccattt cctccctgt ccacgggtgt ttgaaagtac acggagcccc 1200
gaggacgggt gacgattgt tttttccac ttgtgtgtg ctgatgagac cggtcggta 1260
ctgcaacaag gctccctgaa gccggaactc ttggaggcgc ttttccagg gatgctgagg 1320
ctgagatttt cagcacacc gagttaatct ctttcatttg taactaatt caacctgatg 1380
aaaacctgga attcctttt cacagactcg gctggttctg gactcttct gagacttctt 1440
tgaaggaggc tttgctgtaa ggctgctcgg ctacttttc ctaagtgtgg ttctgaagg 1500
ctgtcttct aactttttgt agttcttct gtaaaaagcg tattctgaat ttatacacat 1560
ggcatgttct tcattatct ttccaggata catctatttt tatatattaa atttgaatgt 1620
gttatcaaaa tgcttggtta acttaaggca cttttttaa agcagaattt aatttgattt 1680
aaattttcca gattttatag cttgcctgta tggatgctcc tcaatttat atggggttac 1740
atcccaataa acttatttta tttgcctttg                                     1770

```

<210> 10518  
 <211> 376  
 <212> PRT  
 <213> Homo sapiens

<400> 10518

Met	Ala	His	Ile	Thr	Ile	Asn	Gln	Tyr	Leu	Gln	Gln	Val	Tyr	Glu	Ala
1				5				10				15			
Ile	Asp	Ser	Arg	Asp	Gly	Ala	Ser	Cys	Ala	Glu	Leu	Val	Ser	Phe	Lys
			20					25				30			
His	Pro	His	Val	Ala	Asn	Pro	Arg	Leu	Gln	Met	Ala	Ser	Pro	Glu	Glu
			35				40					45			
Lys	Cys	Gln	Gln	Val	Leu	Glu	Pro	Pro	Tyr	Asp	Glu	Met	Phe	Ala	Ala
	50					55					60				
His	Leu	Arg	Cys	Thr	Tyr	Ala	Val	Gly	Asn	His	Asp	Phe	Ile	Glu	Ala
65					70				75					80	
Tyr	Lys	Cys	Gln	Thr	Val	Leu	Val	Gln	Ser	Phe	Leu	Arg	Val	Phe	Ala
				85				90						95	
Asn	Asn	Ala	Asp	Gln	Gln	Leu	Val	Lys	Lys	Gly	Lys	Ser	Lys	Val	Gly
			100					105					110		
Asp	Met	Leu	Glu	Lys	Ala	Ala	Glu	Leu	Met	Met	Ser	Cys	Phe	Arg	Val
		115					120						125		

09629459.072300

-4017/13211-

Cys	Ala	Ser	Asp	Thr	Arg	Ala	Gly	Ile	Glu	Asp	Ser	Lys	Lys	Trp	Gly
130						135					140				
Met	Leu	Phe	Leu	Val	Asn	Gln	Leu	Phe	Lys	Ile	Tyr	Phe	Lys	Ile	Asn
145					150					155					160
Lys	Leu	His	Leu	Cys	Lys	Pro	Leu	Ile	Arg	Ala	Ile	Asp	Ser	Ser	Asn
				165					170					175	
Leu	Lys	Asp	Asp	Tyr	Ser	Thr	Ala	Gln	Arg	Val	Thr	Tyr	Lys	Tyr	Tyr
		180						185					190		
Val	Gly	Arg	Lys	Ala	Met	Phe	Asp	Ser	Asp	Phe	Lys	Gln	Ala	Glu	Glu
	195						200					205			
Tyr	Leu	Ser	Phe	Ala	Phe	Glu	His	Cys	His	Arg	Ser	Ser	Gln	Lys	Asn
210						215					220				
Lys	Arg	Met	Ile	Leu	Ile	Tyr	Leu	Leu	Pro	Val	Lys	Met	Leu	Leu	Gly
225				230						235					240
His	Met	Pro	Thr	Val	Glu	Leu	Leu	Lys	Lys	Tyr	His	Leu	Met	Gln	Phe
				245					250					255	
Ala	Glu	Val	Thr	Arg	Ala	Val	Ser	Glu	Gly	Asn	Leu	Leu	Leu	Leu	His
		260						265					270		
Glu	Ala	Leu	Ala	Lys	His	Glu	Ala	Phe	Phe	Ile	Arg	Cys	Gly	Ile	Phe
	275					280					285				
Leu	Ile	Leu	Glu	Lys	Leu	Lys	Ile	Ile	Thr	Tyr	Arg	Asn	Leu	Phe	Lys
290					295						300				
Lys	Val	Tyr	Leu	Leu	Leu	Lys	Thr	His	Gln	Leu	Ser	Leu	Asp	Ala	Phe
305					310					315					320
Leu	Val	Ala	Leu	Lys	Phe	Met	Gln	Val	Glu	Asp	Val	Asp	Ile	Asp	Glu
				325					330					335	
Val	Gln	Cys	Ile	Leu	Ala	Asn	Leu	Ile	Tyr	Met	Gly	His	Val	Lys	Gly
			340				345						350		
Tyr	Ile	Ser	His	Gln	His	Gln	Lys	Leu	Val	Val	Ser	Lys	Gln	Asn	Pro
	355					360						365			
Phe	Pro	Pro	Leu	Ser	Thr	Val	Cys								
370						375									

<210> 10519  
 <211> 2005  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (44).. (1393)

<400> 10519  
 aaaaagagcc gagtgggaca aagcctgggg ctgggcgggg gccatggcgc tgccatcccg 60  
 aatcctgctt tggaaacttg tgcttctgca gagctctgct gttctcctgc actcagggtc 120  
 ctcggtaccc gccgctgctg gcagctccgt ggtgtccgag tccgcgggtga gctgggaggc 180  
 gggcgcccgg gcggtgctgc gctgccagag cccgcgcgat gtgtggaccc aggaccggct 240

09629469.072800



09629469.072800

```

gcacgaccgc cagcgcgtgc tccactggga cctgcgcggc cccgggggtg gccccgcgcg 300
gcgccctgctg gacttgtaact cggcggggoga gcagcgcgtg tacgaggcgc gggaccgcgg 360
ccgcctggag ctctcggcct cggccttoga cgacggcaac ttctcgtcgc tcatccgcgc 420
ggtggaggag acggacgcgg ggctgtacac ctgcaacctg caccatcact actgccacct 480
ctacgagagc ctggccgtcc gcctggaggt caccgacggc ccccccggcca ccccccgccta 540
ctgggacggc gagaaggagg tgctggcggg ggcgcgcggc gcaccgcgcg ttctgacctg 600
cgtgaaccgc gggcacgtgt ggaccgaccg gcacgtggag gaggctcaac aggtggtgca 660
ctgggacggc cagccgcccg gggtcccga cgaccgcgcg gaccgcctgc tggacctcta 720
cgcgctcggc gagcgccgcg cctacggggc cttttttctg cgcgaccgcg tggctgtggg 780
cgcggtatgcc tttgagcgcg gtgacttctc actgcgtatc gagccgctgg aggtcgcga 840
cgagggcacc tactcctgcc acctgcacca ccattactgt ggccctgcacg aacgccgcgt 900
cttccacctg acggctgcgc aaccccacgc ggagccgccc ccccggggct ctccgggcaa 960
cggctccagc cacagcggcg ccccaggccc agaccccaca ctggcgcgcg gccacaacgt 1020
catcaatgtc atcgtcccg agagccgagc ccacttcttc cagcagctgg gctacgtgct 1080
ggccacgctg ctgctcttca tctgtctact ggtaactgtc ctcttgccg cccgcaggcg 1140
ccgcggaggc tacgaatact cggaccagaa gtccgggaaag tcaaagggga aggatgttaa 1200
cttggcggag ttcgctgttg ctgcagggga ccagatgctt tacaggagtg aggacgtcca 1260
gctagcctcc tctcctccca cagattacaa aaacaacatc ctgaaggaga gggcggagct 1320
ggcccacagc cccctgcctg ccaagtacat cgacctagac aaagaccctt ctgggctctg 1380
ccgctgggg gcctgaagac attcctggag gacactccca tcagaacctg gcagcccaa 1440
aactggggtc agcctcaggg caggagtccc actcctccag ggctctgctc gtccggggct 1500
gggagatgtt cctggaggag gacactccca tcagaacttg gcagccttga agttggggtc 1560
agcctcggca ggagtccac tcctcctggg gtgctgcctg ccaccaagag ctccccacc 1620
tgtaccacca tgtgggactc caggcaccat ctgttctccc cagggacctg ctgacttgaa 1680
tgccagccct tgctcctctg tgttgctttg ggccacctg ggctgcaccc cctgcccttt 1740
ctctgcccc tccctacctt agccttgctc tcagccacct tgatagtcac tgggctccct 1800
gtgacttctg accctgacac ccctcccttg gactctgcct gggctggagt ctagggtctg 1860
ggctacattt ggcttctgta ctggctgagg acagggggagg gagtgaagtt ggtttggggt 1920
ggcctgtgtt gccactctca gcaccccaca ttgcatctg ctggtggacc tgccaccatc 1980
acaataaagt ccccatctga ttttt
2005

```

<210> 10520  
 <211> 450  
 <212> PRT  
 <213> Homo sapiens

<400> 10520  
 Met Ala Leu Pro Ser Arg Ile Leu Leu Trp Lys Leu Val Leu Leu Gln  
 1 5 10 15  
 Ser Ser Ala Val Leu Leu His Ser Gly Ser Ser Val Pro Ala Ala Ala  
 20 25 30  
 Gly Ser Ser Val Val Ser Glu Ser Ala Val Ser Trp Glu Ala Gly Ala  
 35 40 45  
 Arg Ala Val Leu Arg Cys Gln Ser Pro Arg Met Val Trp Thr Gln Asp  
 50 55 60  
 Arg Leu His Asp Arg Gln Arg Val Leu His Trp Asp Leu Arg Gly Pro  
 65 70 75 80



<210> 10521  
<211> 1607  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (385).. (885)

<400> 10521  
gattaaatgt tctgagtaag tgagtttgta gacattttct tgtaagaaaa tgttccatgc 60  
tttactctgt tttggacatt ttcttttgaa aaattttgag atagaaacct taatatcatt 120  
tcatatatatt acagcatata gttaatttga gtagagtcaa attaatotta ctttagaatt 180  
tgattactaa gtattagcat ggataataat gcttcttttg cttaaagtga aaaattaggc 240  
cgttttacta ggtgtacttt gtcttaataca tattcctatt tttttataca gctgtgcaac 300  
catattgctt ctgggaaaaa atgtcaatat gtgggaaact gttcctttgc tcatagtcct 360  
gaggaaagag aagtttggac ttacatgaag gagaatggga tacaagatat ggagcaattt 420  
tacgaactat ggctcaagag tcaaaaaaat gaaaaaagtg aagacatagc cagtcagtca 480  
aacaaggaaa atggaaaaca aattcacatg ccaacagatt atgctgaagt tacagtggac 540  
tttcaactgct ggatgtgtgg gaaaaactgc aacagtgaga agcagtggca gggccacatc 600  
tcctccgaga agcacaaaga gaaggttttc cacaccgagg acgaccagta ctgctggcag 660  
caccgcttcc caacaggcta tttcagttatt tgtgatagggt atatgaatgg cacctgcccc 720  
gaaggaaaaca gctgtaaatt tgcacatgga aatgccgaac ttcatgaatg ggaagaaaga 780  
agagatgccc taaagatgaa gctcaacaaa gcacgaaaag atcaactaat tggcccaaat 840  
gataatgact ttggaaaata tagttttttg tttaaagatt taaactaata tgctggcctt 900  
tatgtatgat acctaatcag agcattgacc agaaaaattg aaagtgttct gaggcacata 960  
gcagaggagc tgcagatttc ctgcttgtat tggcgtatat cgttcctcct gagcagcaac 1020  
ccacagtagg taggaaaatg ggctgtttca caggcctggc cacgctctca cggaaccact 1080  
ggcatcagat ggtgaagtga ctgctaccog gttgccatct gttgaacaga cttttggatg 1140  
aagtgtgttg gggaagagga tgaggttata tctaggacaa ctctttgagt tggtccttca 1200  
tataagaatc gtgacggtaa gagaataaac acttgtactg ggatcagaat acatgatgga 1260  
tgaaattcct tacatgtttt agcagaatga atttgtttta tataataaag tttgctactt 1320  
atctgtatgt aggttgctaa aaaggatttt cttaactcag attttaagcc aaataaccat 1380  
ttaacactag tatttgttta atggggtatt tttctgtatt tgtatgtttc actataataa 1440  
gggaattaag gataatgtgc attgagaata ttttgaaaaa taattgactc aaattttatt 1500  
tcttggctct ttgctgttta aatgatgatt ttgaaagatt aaacctgtac tgttgggtatt 1560  
gtgttagtgt atggaccaat actgcctgta ataaagattt tatatat 1607

<210> 10522  
<211> 167  
<212> PRT  
<213> Homo sapiens

<400> 10522  
Met Lys Glu Asn Gly Ile Gln Asp Met Glu Gln Phe Tyr Glu Leu Trp

09629459.072800

1	5	10	15
Leu Lys Ser Gln Lys Asn Glu Lys Ser Glu Asp Ile Ala Ser Gln Ser			
20	25	30	
Asn Lys Glu Asn Gly Lys Gln Ile His Met Pro Thr Asp Tyr Ala Glu			
35	40	45	
Val Thr Val Asp Phe His Cys Trp Met Cys Gly Lys Asn Cys Asn Ser			
50	55	60	
Glu Lys Gln Trp Gln Gly His Ile Ser Ser Glu Lys His Lys Glu Lys			
65	70	75	80
Val Phe His Thr Glu Asp Asp Gln Tyr Cys Trp Gln His Arg Phe Pro			
85	90	95	
Thr Gly Tyr Phe Ser Ile Cys Asp Arg Tyr Met Asn Gly Thr Cys Pro			
100	105	110	
Glu Gly Asn Ser Cys Lys Phe Ala His Gly Asn Ala Glu Leu His Glu			
115	120	125	
Trp Glu Glu Arg Arg Asp Ala Leu Lys Met Lys Leu Asn Lys Ala Arg			
130	135	140	
Lys Asp His Leu Ile Gly Pro Asn Asp Asn Asp Phe Gly Lys Tyr Ser			
145	150	155	160
Phe Leu Phe Lys Asp Leu Asn			
165			

<210> 10523  
 <211> 1731  
 <212> DNA  
 <213> Homo sapiens

<400> 10523

aataagtagc	ctccaggcat	tcccttccac	cagaggagca	attgtttttt	aaatagccct	60
ttggcgccca	gtctattact	aaaccatatg	agtcattttt	taatattact	gcatgtgagt	120
taacatagtc	ttcccaaatt	aaagttttag	atggggccctc	aaaattttta	gggcatgggt	180
ttcctgcagg	tttatatgga	aagtatgggg	tccctgactt	ctcgcaacag	tggcctacac	240
tgcctttcag	ttctgtacct	aggcctccaa	agcacttttag	cctgtggggc	ttgccagaac	300
tggggttcca	gctcctggaa	tggacagttc	ccctctggct	agggttgatc	taatgttccc	360
tctgggttac	tggctgagtt	ctgccctgtg	tggctttctg	ctgtgccagg	gctgcactga	420
gttcaaatgc	agagtctcac	aatcattgta	ttcttccctc	cccaggagca	cccattctct	480
ctttacacca	attggccact	gccaggggat	gaagagggat	gatgttgaca	attcaagact	540
atttcttacc	ctcttcagtg	cctgtttcct	taatatgata	ataaaccagg	tactgcgatc	600
actcacctga	ttattggttc	ttatgaaggt	gcttttttaa	tgtagtgtgt	cagtttgata	660
tttctgtcgg	agggatgact	gctggaggat	tctattaagc	catcttgctc	tgccttcttg	720
caacacataa	aattcaacag	ttttgtgcaa	ctgtaagttc	aagtgtttgt	aattttattt	780
atttcatttt	tttctttgag	atgaagtctc	cctcttgtta	cccaggctgg	agtgcagtgg	840
cgcgatcttg	gctcactgca	acctctacct	cctgggttca	agcaatcctc	ctgccttatc	900
ctcccaagta	gctgggatta	cagatgcctg	ccaccatgtc	ttgctaactt	ttgtacattt	960
ggtagacatg	aggttttgcc	atgttgtccg	ggctgggtctt	gaactcctga	cttcaagtga	1020
tccacctgtc	ttagcctccc	aaagtactgg	gattacaggt	gagagtcact	gtcccttgct	1080
gcaaatctct	tattaaatct	gtttgacaga	ttttagaatt	tctataagta	atgtttaaaa	1140

09629469.072800

ttacaacccat	ttgggctggg	tgtggtggct	catgcctgta	atcccagcac	ttatatttatt	1200
tcttatcagg	agaacgagaa	tcatacatact	actttgcatac	ggagggttaag	ctcattctttt	1260
tccttaaaat	gggaagataa	aggcattacc	ccctctccga	ggcctcatat	gatactcccc	1320
attctgaccc	agaacaccca	gaactttgga	aattggctat	tgccatgtct	ggactgcaag	1380
tatgggaagc	agaaactatt	ctgtctgttg	tccccactac	catctccctc	tctcagtatc	1440
aacgtagatc	cagacattct	gctttaccta	cctccaacct	gtttccatac	agagttctgt	1500
taagcctcct	tgcatgctgt	tagtgagata	tatcaaaatt	tggatgaaca	atcaaaactgt	1560
ccaatgcatt	aattgtcatt	tatacacttg	tattaactcc	catttttgatt	ccaggaaaag	1620
tgtaatgttg	gttcgagctc	aagaaggaat	ctggattccg	gtaactttgc	ccagaccttg	1680
ggaatcctcc	ccttcaatac	atttaattaa	tgaagtgtta	cagtgaattc	t	1731

<210> 10524  
 <211> 1564  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (9).. (431)

<400> 10524						
acctaacaat	ggagacagcg	ggcgcctgcaa	ctgggcagcc	ggcctctggg	ctggaggctc	60
cgggggtccac	gaatgaccgg	cttttccttg	ttaaagggtg	aattttcctt	ggtaccgttg	120
ctgcagcggg	aatgctagct	ggatttatta	caacattatc	attggctaaa	aagaaaagcc	180
ctgaatgggt	caataaggga	agtatggcca	cggctgcatt	accggaaaagc	gggtcttccc	240
ttgccttgcg	agctctgggc	tggggctccc	tgtatgcatg	gtgtgggggt	ggtgtgatta	300
gcttcgcagt	ctggaaagct	ttaggagttc	acagtatgaa	cgactttcga	agtaaaatgc	360
aatcaatatt	tccaacaatt	ccaagaact	ccgaatcggc	tgttgagtgg	gaggaaacat	420
tgaaatccaa	atgagatgag	catggatgaa	tttcaaaatg	cttgttacag	aaaggggttg	480
ctctggagac	accatgacag	caaaaggact	gggactgatt	tctcccagga	acatgggcag	540
attgctgact	gaaccagtgc	actggatagc	attcagcctc	atcacaggaa	agtatgtgtg	600
tgcgtgctgg	gggagggtaa	agttttccca	cagttaagaa	gactatttaa	aaatagtaat	660
tacaggaata	acttccttat	gtggggggga	ccccatagga	aatgattctg	tttgtaacag	720
ttgaagcaaa	tttcatacta	aaaaaagttt	ataataaaaag	tatgataaga	aaatatattat	780
aaaacagacc	ccctaatagc	aatagtactg	caatgtgtct	aattaaagga	gtttcaagag	840
cctttcttgt	caatatatga	cagaacttgg	aagtcttatt	ctgattagcc	agactacaaa	900
gtgacagtca	cctggtaagt	cctgtatggt	aggaagtggg	tgtggctctc	gggtccataa	960
tgtggtctgt	gctttacagc	catcacacac	gtgctagtta	tttacctgat	gcccttgctt	1020
gaaggcccta	taaattctta	tacttaaaac	aaaaagccag	taatgagttg	tgatcacccc	1080
aaaaggcaca	gttgggctaa	aataatgatg	atatcagggg	taaacatatt	tttttgagaa	1140
gttggctctg	atctctgaac	actgacaatt	tgtcattttg	tctcagttgt	caaagtaaaa	1200
agagcccagt	tgtcatccgt	cttcaatatt	tttaaccaga	aagtcacctg	agtacggagt	1260
cccaatatata	agtatttggg	accacctccc	taacaaagct	gttagggtaa	attctgtgtg	1320
cacgcccac	tccctcctgt	cttccacagt	ctcctacaaa	aaaaacagat	ggagaataat	1380
gtctacatgc	aattgttttt	actgcaattg	tatttttaaaa	tattttcaag	aagagaaata	1440
ctttaatatg	tcaatatgtc	cagagaaaaa	acctgtagtt	aaatatcagt	tgtgcaattt	1500
cttcctactt	gcctaggctc	taattagtca	gcaatcaggt	ttaataaaagg	acatttgaaa	1560

tttc

1564

<210> 10525  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 10525  
Met Glu Thr Ala Gly Ala Ala Thr Gly Gln Pro Ala Ser Gly Leu Glu  
1 5 10 15  
Ala Pro Gly Ser Thr Asn Asp Arg Leu Phe Leu Val Lys Gly Gly Ile  
20 25 30  
Phe Leu Gly Thr Val Ala Ala Ala Gly Met Leu Ala Gly Phe Ile Thr  
35 40 45  
Thr Leu Ser Leu Ala Lys Lys Lys Ser Pro Glu Trp Phe Asn Lys Gly  
50 55 60  
Ser Met Ala Thr Ala Ala Leu Pro Glu Ser Gly Ser Ser Leu Ala Leu  
65 70 75 80  
Arg Ala Leu Gly Trp Gly Ser Leu Tyr Ala Trp Cys Gly Val Gly Val  
85 90 95  
Ile Ser Phe Ala Val Trp Lys Ala Leu Gly Val His Ser Met Asn Asp  
100 105 110  
Phe Arg Ser Lys Met Gln Ser Ile Phe Pro Thr Ile Pro Lys Asn Ser  
115 120 125  
Glu Ser Ala Val Glu Trp Glu Glu Thr Leu Lys Ser Lys  
130 135 140

<210> 10526  
<211> 1930  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (139).. (1827)

<400> 10526  
aagcccggcc tggcggcgcc ggtggcggtg gctgccgtgg cggcctctgc gcatgctccg 60  
tcgcctgccc gccctggccg ctgcgccccc gcccgccga cggagacgca gtcccagcta 120  
totgacttca tgtgaaagat ggctaattgca gaagtgaagt tcccagtgga ggatgtggtt 180  
gtggtacctt ctgaaggaaa tgaaggggag aatcctgaag acactaaaac ccaagtgtatt 240  
ttgcagttac agcctgtgca acaagggatt tatgaagctg ggtcggagaa caacacggca 300  
gtttagtagc tagaaactca cacgatacac aaaattgaag aagggtattga tacaggcact 360  
atagaagcaa atgaggatat ggaaattgct taccataaa cttgtgggga gagcaaagcc 420  
atcctcctct ggaagaagtt tgtatgtcca ggaataaacg tgaagtgtgt caagttcaat 480  
gatcagttga tcagccccc gacatttgtt catctggctg gcaagtcac tctgaaggac 540

09629469.072800

```

tggaagagag ctattcgtct ggggtgggato atgctcagga aaatgatgga ctccggacag 600
attgattttt accaacaatga caaagtttgc tccaatacct gcagaagcac caaatttgat 660
cttctgatca gcagtgaag agctccagtg ccaggacagc agacaagtgt ggtgcagaca 720
cccacttcgg ctgatggtag catcacgcag attgccatct cagaagagag catggaagag 780
gcagggctgg aatggaactc agctctcacc gctgctgtca ccatggccac ggaggagggt 840
gtaaagaaag actcagagga aatttcagag gacactttga tgttctggaa aggaatagct 900
gatgtagggc tgatggaaga ggttgtctgc aatatacaga aggaaataga ggagctactc 960
aggggagttc agcagcggct catccaggct ccttccaag tcacagatgc tgctgttctc 1020
aacaatgtag cacacacatt tggcctaatt gacacagtca agaaggtttt agacaacaga 1080
aggaaccaag tagagcaggg agaagaacag tttctctata ctctgacaga cttggaacgc 1140
cagttggagg agcagaagaa gcaaggccag gatcacaggc tgaaatctca gacagttcaa 1200
aatgtggtac tgatgcctgt gagcactcct aagcctccaa aaaggccccg gctccagcgg 1260
ccagcctcca ccaactgtctt gagcccttct cctcctgtcc agcagcctca gttcacagtc 1320
atctcaccca tcaccatcac ccagtggggt cagtcatttt ccatgggcaa tattccagt 1380
gccaccctca gccagggctc cagtcctgtg actgtccaca cactgccttc tggccctcag 1440
ctcttcgct atgccacagt ggtctcctct gccaaagagca gctcaccaga cacaatgacc 1500
atccaccctt catctagctt ggcgctgtg agctctactg ccatgcagga tgggagtaca 1560
ctgggcaaca tgaccaccat ggtagccct gtggaattgg tggccatgga gtccggccta 1620
acctcggcaa ttcaggctgt tgaaagcacc tcagaggatg ggcagaccat cattgagatt 1680
gatccagccc cggaccaga agctgaagat actgagggca aagcagtcatt cttggagaca 1740
gagctgagga ttgaggagaa agttgtggct gagatggaag aacaccagca tcaagttcac 1800
aatgtggaga ttgtgtctt agaggattaa ctggggatct cagggccagg agttatgttt 1860
tgatttggaa ttttaattat ttgtttattt ttatcattgt cccactcatt tccacatagg 1920
accctttttt                                     1930

```

<210> 10527  
 <211> 563  
 <212> PRT  
 <213> Homo sapiens

<400> 10527

Met	Ala	Asn	Ala	Glu	Val	Ser	Val	Pro	Val	Gly	Asp	Val	Val	Val	Val
1				5				10					15		
Pro	Thr	Glu	Gly	Asn	Glu	Gly	Glu	Asn	Pro	Glu	Asp	Thr	Lys	Thr	Gln
		20						25					30		
Val	Ile	Leu	Gln	Leu	Gln	Pro	Val	Gln	Gln	Gly	Ile	Tyr	Glu	Ala	Gly
		35						40					45		
Ser	Glu	Asn	Asn	Thr	Ala	Val	Val	Ala	Val	Glu	Thr	His	Thr	Ile	His
	50					55					60				
Lys	Ile	Glu	Glu	Gly	Ile	Asp	Thr	Gly	Thr	Ile	Glu	Ala	Asn	Glu	Asp
	65				70					75				80	
Met	Glu	Ile	Ala	Tyr	Pro	Ile	Thr	Cys	Gly	Glu	Ser	Lys	Ala	Ile	Leu
			85					90						95	
Leu	Trp	Lys	Lys	Phe	Val	Cys	Pro	Gly	Ile	Asn	Val	Lys	Cys	Val	Lys
		100						105					110		
Phe	Asn	Asp	Gln	Leu	Ile	Ser	Pro	Lys	His	Phe	Val	His	Leu	Ala	Gly
	115						120					125			

09629469.07360

Lys	Ser	Thr	Leu	Lys	Asp	Trp	Lys	Arg	Ala	Ile	Arg	Leu	Gly	Gly	Ile
130						135					140				
Met	Leu	Arg	Lys	Met	Met	Asp	Ser	Gly	Gln	Ile	Asp	Phe	Tyr	Gln	His
145					150					155					160
Asp	Lys	Val	Cys	Ser	Asn	Thr	Cys	Arg	Ser	Thr	Lys	Phe	Asp	Leu	Leu
				165				170						175	
Ile	Ser	Ser	Ala	Arg	Ala	Pro	Val	Pro	Gly	Gln	Gln	Thr	Ser	Val	Val
			180					185					190		
Gln	Thr	Pro	Thr	Ser	Ala	Asp	Gly	Ser	Ile	Thr	Gln	Ile	Ala	Ile	Ser
		195					200					205			
Glu	Glu	Ser	Met	Glu	Glu	Ala	Gly	Leu	Glu	Trp	Asn	Ser	Ala	Leu	Thr
		210				215					220				
Ala	Ala	Val	Thr	Met	Ala	Thr	Glu	Glu	Gly	Val	Lys	Lys	Asp	Ser	Glu
225					230					235					240
Glu	Ile	Ser	Glu	Asp	Thr	Leu	Met	Phe	Trp	Lys	Gly	Ile	Ala	Asp	Val
				245				250						255	
Gly	Leu	Met	Glu	Glu	Val	Val	Cys	Asn	Ile	Gln	Lys	Glu	Ile	Glu	Glu
		260					265						270		
Leu	Leu	Arg	Gly	Val	Gln	Gln	Arg	Leu	Ile	Gln	Ala	Pro	Phe	Gln	Val
		275					280					285			
Thr	Asp	Ala	Ala	Val	Leu	Asn	Asn	Val	Ala	His	Thr	Phe	Gly	Leu	Met
	290					295					300				
Asp	Thr	Val	Lys	Lys	Val	Leu	Asp	Asn	Arg	Arg	Asn	Gln	Val	Glu	Gln
305					310				315						320
Gly	Glu	Glu	Gln	Phe	Leu	Tyr	Thr	Leu	Thr	Asp	Leu	Glu	Arg	Gln	Leu
				325				330						335	
Glu	Glu	Gln	Lys	Lys	Gln	Gly	Gln	Asp	His	Arg	Leu	Lys	Ser	Gln	Thr
			340					345					350		
Val	Gln	Asn	Val	Val	Leu	Met	Pro	Val	Ser	Thr	Pro	Lys	Pro	Pro	Lys
		355					360					365			
Arg	Pro	Arg	Leu	Gln	Arg	Pro	Ala	Ser	Thr	Thr	Val	Leu	Ser	Pro	Ser
	370					375					380				
Pro	Pro	Val	Gln	Gln	Pro	Gln	Phe	Thr	Val	Ile	Ser	Pro	Ile	Thr	Ile
385					390					395					400
Thr	Pro	Val	Gly	Gln	Ser	Phe	Ser	Met	Gly	Asn	Ile	Pro	Val	Ala	Thr
				405				410						415	
Leu	Ser	Gln	Gly	Ser	Ser	Pro	Val	Thr	Val	His	Thr	Leu	Pro	Ser	Gly
			420					425					430		
Pro	Gln	Leu	Phe	Arg	Tyr	Ala	Thr	Val	Val	Ser	Ser	Ala	Lys	Ser	Ser
		435				440						445			
Ser	Pro	Asp	Thr	Met	Thr	Ile	His	Pro	Ser	Ser	Ser	Leu	Ala	Leu	Leu
	450					455					460				
Ser	Ser	Thr	Ala	Met	Gln	Asp	Gly	Ser	Thr	Leu	Gly	Asn	Met	Thr	Thr
465					470					475					480
Met	Val	Ser	Pro	Val	Glu	Leu	Val	Ala	Met	Glu	Ser	Gly	Leu	Thr	Ser
				485				490						495	
Ala	Ile	Gln	Ala	Val	Glu	Ser	Thr	Ser	Glu	Asp	Gly	Gln	Thr	Ile	Ile
			500					505					510		

000270.69462960



Glu Ile Asp Pro Ala Pro Asp Pro Glu Ala Glu Asp Thr Glu Gly Lys  
515 520 525  
Ala Val Ile Leu Glu Thr Glu Leu Arg Ile Glu Glu Lys Val Val Ala  
530 535 540  
Glu Met Glu Glu His Gln His Gln Val His Asn Val Glu Ile Val Val  
545 550 555 560  
Leu Glu Asp

<210> 10528  
<211> 1559  
<212> DNA  
<213> Homo sapiens

<400> 10528  
ttaaagtgt attatgaaac agattcattc attcattcat gttgcccacc tgggtcccat 60  
agtcacgga gttttccact cttgacgaac gaatacttgc cctattttcc aagctaagtc 120  
ttgaatacct tgtaatgttt tacttcttgt ggcaccttgc actttgtgta aaatcaggag 180  
tgaggagtgc caataaatat ttgattgact aattgacagc ttgagtcaag gttctggaag 240  
agaataaata caagggaag gcattccctt ttccatttag accatatttt gcctaagcca 300  
aatggacgat ttacagctaa tcattgcgtc ttaaccaggg acagctggag cttactgctt 360  
gcctcctgcc tagtcgtcct tattccttct ataaaggcag aaaacagaag ggctctgcac 420  
acagcagtca cagacgctca tcaaagacaa accactgaca tggaaactga acaagaaaag 480  
gcttccttgt tcaaggctgg cttttgggag ccatgttcaa gcatgcccta agtagcacag 540  
tcagcagcct ttttccttca ctcttttagg gctggggttg aggaacaaga ttccctcaat 600  
tttccaacaa ataacctatt tcagtgaat aaaaaagg ggggtggggc attggtgcag 660  
tcagtcattc atatgccaa ttgtagccat gttagtattt catgccagta attctgtcta 720  
gcagaaactc atcctggctc ttttcattc cttttagcaa gattgcagtt gtaaatcagc 780  
aggaatgtcc tggagactgc tccagggtgg ttgtcgggag cagtctggaa gaagaatctt 840  
cagaataatt taggttatga gtctaaggagg gaaggtcaat gctgctattt agaaccagag 900  
cactatgcca aatttggctt tggagggatg cgttaaatgt cattcttggg atttgaattt 960  
agaatatatt aaaaacacga tcgtttgtac attcaccctt acaagattta gccagggttc 1020  
tcctctctga cctctgaaca tcctctaaat ttgcgagacc actatagtaa taatccaatt 1080  
tggttttagta ctttttactc ataagaagag ttccatttgt agcttttaga ggaaatggag 1140  
tgagtatcat tctgatctca agggcactgt ggacagaaat tggatttgca gagttagtgt 1200  
aggtcttggg tctacctctt aataacagta tggccttaga caaatacttt gtcctctctg 1260  
ggccctttct tttttcttt ctttctttct ttctttcttt ctttctttct ttctttcttt 1320  
ctttctttct ttctttcttt cagaaacaga gttgggtgga ggttggaagg agggagagga 1380  
tcggaaaaaa taactattgg tcaactagcct tagtacctgt gtgatgaaat aaataatctg 1440  
tacagcaaac ccccgtagca tgagtttatc tatataacaa acctgcacat gtacccttga 1500  
agctaaaatg caagtttgtt tgttttaaag aaacagttat tcagaggaat gaatgccac 1559

<210> 10529  
<211> 1744  
<212> DNA  
<213> Homo sapiens

09629469.072800

000220.6942360

<400> 10529

```

tgtaaaatgt ggacaataat aataatgcta acagtaaaaa ctacctcata ggattgatgt 60
gaggattaaa tgagctatga aaacctotta gaaggtagct gttagctagt actcagctca 120
gtgagtatta actgttttgt tattaagacg tgtgtgtctc tgccatttgt atttaacacg 180
tgtccttgtg cctggccttac ctccctgtta tactgttaacc tccgtaagga caggcatagt 240
gcccccttct tccttatctc ttactgtctt gtattagctc atcttgcgct gctacaaagg 300
tacacctgaa gctaggtaat ttataaagac atgagattta attggcttat ggttctgcag 360
gctgtgcagg aagcatattg ctggcatctg cttctgggtga agacctcagg aagttgcctt 420
atggcagaag gcacagggga agcaggcagt cacatgggtga gagagaagga gcaatagaga 480
gaaacaggag gttcttttcaa ccaaccagat ctacagtgag ctattacca cggggagtgc 540
accaagacaa ggatgaagga tccgccccta tgaccaata cctcccacta ggccccacct 600
ccaacactgg ggatcacatt tcaacacagg atttggaggga gagaaacatc cgaacagtat 660
cactgctttt cgggtgctgta tatacaattt gggccccatg gttttggcat cctggatatt 720
ccagtactgt tcagacttca gagattcagc tgtactttct aagctcagtt attatgacct 780
cagttcataa ttacttttgc accaacataa tatcagatca cgtatcccaa tatggggttc 840
agaaaaaaag tccctatcaa taggtatcat tggcagcctc tagcagcttt gctttctctt 900
ggcagagtgc tctagcaatg cccaggagcc cttctgcaga ggctggacaa ctctcctggg 960
gtttggcagc cagctctgtt ctgcatgoot tgggcacaat atgctttcac ctgtccccac 1020
cctaacccca cccacagaat cctttccttg gttttaataa acttccagct gtcttcgtcc 1080
atthtctgct gctataacag aataccacag attgggtcat tgataaagaa cagaaatgta 1140
attctcacag ttccagaggc tggtaaattc aagatcaagg cacgggcagg ttggtgtctg 1200
gtgagcatct ggtctcttct gccaaagatga cacctagaat gctgcatcct ctggagaaga 1260
agaacacgtg tcctcacatg gcagaaggca ggagggcaaa aaggagccaa actccccacc 1320
totcaatact gttgcattgg ggattaagtc tccaacacat gaatttgggg gaaacattca 1380
gaccatagca tcaggcatgg ccaagttaag taacttgcca cctactgcca agcaacccaa 1440
actcaaaggc ctgcgacctg caagttcaga taaggaaact gtctcaagct tccaagataa 1500
taactggtga agacagagtc agactgacct aagcaaaggg gtgacagagc tgcattgaaca 1560
gaaattctct aaagatcagg gatggaaaat gaaaaatcaa aatgaactat aaaaacatga 1620
acctgggttg ggtacagtgg catgtgcctg taatcccagc actttgggag gttgaggcag 1680
gaagactgct tgagcccagt agttcaagac cagccctggc aacagagtga gaccctgtcc 1740
ctac

```

<210> 10530

<211> 1851

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (82).. (906)

<400> 10530

```

ccctggacct catcaggcca cggatttgtt gaatcagcag aaaataggac ttctctaagc 60
aaaacaggaa ggaaagaaaag gatggagtgt gaaacagatg aacaaaaaca gggctctgat 120
gagaacatgt cagaatgtga aaccagcagt gtgtgttagca gcagtgcacac tgggctcttt 180
accaatgatg aagggcgcaca aggtgatgac gaacagagtg attggttcta tgaaggagaa 240

```

tgtgtcccag gattcactgt ccctaactct ctgcccgaagt gggctcctga tcattgttct 300  
gaagtagaaa gaatggattc tggattggat aaattttcag attccacatt ctttttacct 360  
tctcggccag ctcaaagagg gtaccatact cgcttgaatc gtctacctgg agctgcagct 420  
cgatgcctca gaaaggggog aagaaggctg gttgggaagg agaccagcat aaacactttg 480  
gggactgaga ggataagcca tatcattagt gaccctcggc agaaagattt ctggttacca 540  
tcagctggga aaagagaacg aaatcagttc aatccccctgt ctccccctta ctccctggat 600  
gttcttgccg atgcttctca ccgaagggtg tcaccagcac actgctctgc cagacaggca 660  
aatgtacact ggggaccacc atgttcacgt gtcacaaaga ggaagcggaa accagtggcc 720  
acagcatctt tgtctagccc cagtgcagtt cacatggatg cagtggagcc aaccacacca 780  
gcatcacaag cccccaatc acccagctct gagtgggttg tgaggacctc tgcagcagag 840  
aaagccacag acgcaactac tgcctacattt tttaaaatgc cacaagaaaa gagccctgga 900  
tacagctaga gagcaggact tcacctcca ggagctgact ggggtgttgct gaagcaaatg 960  
ttggactttg tgtagatag tcttgcatat cttaatcgac attcccagtc ctttcaccac 1020  
cagaaccaac tctcttttca aacacagcag tggattcttt ctctcagaag gtcattgttg 1080  
gggaatcttt tttttaataa gtgaaatatt gaggcagcaa ttttttaca aaaggtcatc 1140  
ctctgctcta tttgttacct tgttattgtc gtctcaacat ttactacagc tccatttaca 1200  
gaactgttgc tttttttgca gttgtctttg ttcttgaaaa accagtaact gcttctgcat 1260  
accttttgtg tagagctttt aatatcattt gaggaagttc caaatttgta gccagttcca 1320  
aacaaattta aatattgagt tgagacctgt atggaattgt gttcgcagga gataaggctt 1380  
gcctttgagc ctactcttga ttcatgcaga gtgccaataa gataaatcaa ccaagttttg 1440  
gggcctcaaa agagacacca gcaactgggc cttgagaact tccatttttt tgcagattgt 1500  
ctgcagaaac tcagacagct catcagcagc agcagctgta ttgtatttta cctcatcttc 1560  
agagtttatg ttctactgaa agaggacgtg tgtatacaca cacacacaca cacacacaca 1620  
cacagagatt ggtataatgg agaagatggg ttaggtgtac agcaaattta aaatagtcag 1680  
tggattgtgt cttactactt catgtcccag tgtaagcctt tatgtcctaa gcaggacttt 1740  
attgttagta ttataggcta ataacctgca gcagaaattc atactctatt ataataatgg 1800  
cttcttgggg ccattgcttg gggaagtaaa atgtcttttt gacatgcctt t 1851

<210> 10531  
<211> 275  
<212> PRT  
<213> Homo sapiens

<400> 10531  
Met Glu Cys Glu Thr Asp Glu Gln Lys Gln Gly Ser Asp Glu Asn Met  
1 5 10 15  
Ser Glu Cys Glu Thr Ser Ser Val Cys Ser Ser Ser Asp Thr Gly Leu  
20 25 30  
Phe Thr Asn Asp Glu Gly Arg Gln Gly Asp Asp Glu Gln Ser Asp Trp  
35 40 45  
Phe Tyr Glu Gly Glu Cys Val Pro Gly Phe Thr Val Pro Asn Leu Leu  
50 55 60  
Pro Lys Trp Ala Pro Asp His Cys Ser Glu Val Glu Arg Met Asp Ser  
65 70 75 80  
Gly Leu Asp Lys Phe Ser Asp Ser Thr Phe Leu Leu Pro Ser Arg Pro  
85 90 95  
Ala Gln Arg Gly Tyr His Thr Arg Leu Asn Arg Leu Pro Gly Ala Ala

09629469.072800

```
<210> 10532
<211> 1406
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (238)..(891)
```

<400> 10532						
aatgctgctc	tggtttcttg	cgcgcttggc	gctacagggg	gtgcggggcgg	cgactccttg	60
cgcaagtcag	cttgccctggg	aaagggtttt	gtggctgaaa	gcgactgggt	ccttgccaca	120
aaggctccgc	tggcgtttgc	ggttcagcgg	ccgtccctga	gtaagatagc	cactttttctc	180
cgacgctgcc	aatagccttc	tccaagtgtc	gcaggctttc	atcgctttgc	aggagccatg	240
cctcgggggac	ggaagagtgc	gcgcgcgcgg	aacgc aaagg	cagctgaaga	gaatcgcaac	300
aatcgcaaga	gccaggcctc	agaggcttca	gagacccga	tggcgggcttc	tgtagccccg	360
agcacaccgc	aagaatacct	gagcggcccg	gaggaagaca	caagcaccct	ggagaaggcc	420
tccagtaccc	cttcagaagc	ttcgagcact	gccctagtgc	aaaagccggt	taccgggagc	480
aattttcagg	gcaccaagaa	aagtctccta	atgtccatat	tagccctcat	cttcattcatg	540
ggcaacagcg	caaaggaggc	cctgggtgtg	aaagtgcctg	ggaagttagg	gatgcagcct	600
gggaggcagc	acagcatctt	tggagatccg	aagaaggctc	ttacagaaga	gtttgtgcgc	660
agagggtatc	tgatttataa	gccagtgcgc	cgcagcagtc	cagtggagta	tgagttcttc	720
tggggccctc	gagcacacgt	ggaatctagc	aagctgaaag	tcatgcattt	tgtggcaaga	780

```

gttcggaacc gatgctccaa agactggcca tgtaactatg actgggattc agatgatgat 840
gcagagggtg aggctattct caattcgggt gctaggggtt attctgctcc atagagagat 900
cctaggcaaa cccttaggag tggaaaagag aatccaaagt atctgctcca tggagtagat 960
aggcagggtc ctgaattcaa aaggttgttg aggggtgggga gggcactgta tttggtattt 1020
gtgaccagtg ctaattgtta aactgcaaag tagtgtttgc tatagatatt gttatcttgt 1080
attcatttta taacactgtt gactaagaat cacaatatgt ttaaataatat acttgaggaa 1140
aagtttatgt tatttttttc tgtcgttggc atttgatatt aacagctgtg ctaaccttat 1200
taaataaagt ctttgtgtca tgttgtgtga tggatagaaa gtaccactga gaggctgttc 1260
tttgaaaagt tggaataacc agtaaagtgt gagtgggaaga agattacaga tttgttctgt 1320
ctttcccttg tgtctgatgt cttgtaatgg aacacatttg taaatatgct cactgtgcaa 1380
atagtataaa taaaagcata gtaaac                                     1406

```

<210> 10533  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 10533

Met	Pro	Arg	Gly	Arg	Lys	Ser	Arg	Arg	Arg	Arg	Asn	Ala	Lys	Ala	Ala	1	5	10	15
Glu	Glu	Asn	Arg	Asn	Asn	Arg	Lys	Ser	Gln	Ala	Ser	Glu	Ala	Ser	Glu	20	25	30	
Thr	Pro	Met	Ala	Ala	Ser	Val	Ala	Pro	Ser	Thr	Pro	Glu	Tyr	Leu		35	40	45	
Ser	Gly	Pro	Glu	Glu	Asp	Thr	Ser	Thr	Leu	Glu	Lys	Ala	Ser	Ser	Thr	50	55	60	
Pro	Ser	Glu	Ala	Ser	Ser	Thr	Ala	Leu	Val	Gln	Lys	Pro	Val	Thr	Arg	65	70	75	80
Ser	Asn	Phe	Gln	Gly	Thr	Lys	Lys	Ser	Leu	Leu	Met	Ser	Ile	Leu	Ala	85	90	95	
Leu	Ile	Phe	Ile	Met	Gly	Asn	Ser	Ala	Lys	Glu	Ala	Leu	Val	Trp	Lys	100	105	110	
Val	Leu	Gly	Lys	Leu	Gly	Met	Gln	Pro	Gly	Arg	Gln	His	Ser	Ile	Phe	115	120	125	
Gly	Asp	Pro	Lys	Lys	Val	Val	Thr	Glu	Glu	Phe	Val	Arg	Arg	Gly	Tyr	130	135	140	
Leu	Ile	Tyr	Lys	Pro	Val	Pro	Arg	Ser	Ser	Pro	Val	Glu	Tyr	Glu	Phe	145	150	155	160
Phe	Trp	Gly	Pro	Arg	Ala	His	Val	Glu	Ser	Ser	Lys	Leu	Lys	Val	Met	165	170	175	
His	Phe	Val	Ala	Arg	Val	Arg	Asn	Arg	Cys	Ser	Lys	Asp	Trp	Pro	Cys	180	185	190	
Asn	Tyr	Asp	Trp	Asp	Ser	Asp	Asp	Ala	Glu	Val	Glu	Ala	Ile	Leu		195	200	205	
Asn	Ser	Gly	Ala	Arg	Gly	Tyr	Ser	Ala	Pro							210	215		

09629469.072800

<210> 10534  
<211> 1590  
<212> DNA  
<213> Homo sapiens

<400> 10534  
cctactatgt aattctgtaa ctttttttcc tgaatgttta ggtctatttt ggcatgcagg 60  
gattaagaaa atagctatct gagcatatat tttatagtcc actaatgaac cctactttga 120  
ccctgtgggt taatgaatga aaagtatctg ctattatggg gtggtttcat cttatcaatt 180  
acatattttt gttttgaaat ttgtcacctt tgtcttcacc attcttttct cttggacaga 240  
ctgttagccc cttaactcat gtacttgcct tgacttaagt taccagtctg tccaagagaa 300  
aagaattaca ttcatggcaa atgccccag tcaggcacaa cataccatat acataatatt 360  
cttgatgagc ttaaagtagc cacacagcac tcagggcagc ctccactaac tgattggaaa 420  
taagcctatt tgccatatct ccctgaaact ttctattaac aaagccacaa aacgcctaaa 480  
caaagaaaaa ttagataata tcaatagccc atcttctaac acattgccta gctcattact 540  
ttcaatacat attttccaaa ctaaaaatta aaatctcaac tctttaagag aagtttcgta 600  
atttttagt ataagagatt atcctggcaa tatagtttta atgccaatat attgaaactt 660  
acatgacatt tcagtgggtt tgcagtgttt tcccaagtat ggtaccttta ccactgaagg 720  
tacacagtga tttctgggtg ttaaacagat gaacattttt tattttaata gctatacaat 780  
ataaccagca aataaaatcc atgttttcat ggatattatt gottagagtt agttaagttt 840  
taaaatgtga tttaaaggaa aatattaagt actagtacaa gagataccca gtatgacaga 900  
aatgatagta gaaggcaaaa gacaagttaa agaaatgctg gtttgtgtca gcagtgggca 960  
gaaaattggg ggctcggggc tgccatgaga atgatagggtg tttgatcacc acagctatag 1020  
gagttctttg aaagtagatc tggacatttt gaaatagtca aggggagggtg tcctcaggga 1080  
tgtcataact gttgacctca agaccaatgc atcagttaga aaaacatttt aaggatgctc 1140  
agcaactgcta tgtatcacag ggtccctcca taggacatac atacttgatc tgctagcgtt 1200  
tttgtcatat gttagaatga atgaatatgt gttagaatgt cttgacacag ttaacctgaa 1260  
cacatacagc tggaatcccc ctgttgcagt gtgtattata tgtaataata tagcaattgc 1320  
agacagcttg gattctttct cacagatatt ctttttgttc aattagaaat tctacataat 1380  
tctggccgag cacagtggat cacttgaggt caggaattca agaccagcct ggccaacatg 1440  
gtgaaacccc gtctctactt aaaatacaaa aattagccag gcgtgggtggc gggcacctgt 1500  
aatccagct actcgggagg cagaggttgc agtgatccaa gatcacgcca ttgactctta 1560  
gcctgggcga caagaaagaa attccatctc 1590

<210> 10535  
<211> 1775  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (157)..(1083)

<400> 10535  
aagaccgtcc cggatggcct cggggactgc cagtgtgtgg aggtgagctc cgggattgcc 60  
ggcattcccc cttctgctgg ttgcttcatg ctgcaggctg cggccgtcag cctcgtctcg 120

09629469.072800

cattggtggc gctgaggtgc cggggcagca agtgacatgt cgtcgggcct ccgcgcgcgt 180  
gacttcccc gctggaagcg ccacatctcg gagcaactga ggccgcggga ccggctgcag 240  
agacaggcgt tcgaggagat catcctgcag tataacaaat tgctggaaaa gtcagatctt 300  
cattcagtgt tggcccagaa actacaggct gaaaagcatg acgtaccaa caggcacgag 360  
ataagtcccg gacatgatgg cacatggaat gacaatcagc tacaagaaat ggcccaactg 420  
aggattaagc accaagagga actgactgaa ttacacaaga aacgtgggga gttagctcaa 480  
ctggtgattg acctgaataa ccaaatgcag cggaaggaca gggagatgca gaaagagctt 540  
gcagaagcag caaaggaacc tctaccagtc gaacaggatg atgacattga ggtcattgtg 600  
gatgaaactt ctgatcacac agaagagacc tctcctgtgc gagccatcag cagagcagcc 660  
actaagcgac tctcgcagcc tgctggaggc cttctggatt ctgtcactaa tatctttggg 720  
agacgctctg tctcttcctt ccagtcctcc caggacaatg tggatactca tcctggttct 780  
ggtaaagaag tgagggtacc agctactgcc ttgtgtgtct tcgatgcaca tgatggggaa 840  
gtcaacgctg tgcagttcag tccaggttcc cggttactgg ccactggagg catggaccgc 900  
agggttaagc tttgggaagt atttgagaa aaatgtgagt tcaagggttc cctatctggc 960  
agtaatgcag gaattacaag cattgaattt gatagtgtg gatcttacct cttagcagct 1020  
tcaaatgatt ttgcaagccg aatctggact gtggatgatt atcgattacg ggtaagacc 1080  
agttaagaaa gttagtgcaa tctccaaact tcatgtgggt ttatcaaggc acaaactggc 1140  
aggtgcttaa ttaggggact ttgttttccc aaaaatcatg cttgattcac cctgcccttc 1200  
ctttcctcct tggggaaatc tgtgtttcca ctttatactc tttgtccaaa actcagtttc 1260  
aaaatatttg caatgggacc ctacatttg catgaaaacc ttggaatact cttcataagg 1320  
actaaatact ttggtagata gcaatttttg cttaatggca cagaacttag caacagcatg 1380  
tgaattgtga ttctgtggg ctctaaaacc taattacct aagtgggata tagaagtaca 1440  
aatggatgta tcatagggat aagacaattc tgaacaaaa actccaagct gagaaagagg 1500  
ggacagggtg cagagcaggg agaaatgatt ggatgttgag gaaagctgca tttgaaccaa 1560  
aacttgccaa gaattctctt ggcatctgac agagagacca aaacttggtt gtatcatttt 1620  
tgattggggc agggggcgga gggcgaagca tgtaacttaa tttgcagaca tttttttcc 1680  
ccataagcct gaaggaatca tcacataagc ttattaaata caagctattg aaagatataa 1740  
tggaggatga atttggcatt agtaggcatt ttact 1775

<210> 10536  
<211> 309  
<212> PRT  
<213> Homo sapiens

<400> 10536  
Met Ser Ser Gly Leu Arg Ala Ala Asp Phe Pro Arg Trp Lys Arg His  
1 5 10 15  
Ile Ser Glu Gln Leu Arg Arg Arg Asp Arg Leu Gln Arg Gln Ala Phe  
20 25 30  
Glu Glu Ile Ile Leu Gln Tyr Asn Lys Leu Leu Glu Lys Ser Asp Leu  
35 40 45  
His Ser Val Leu Ala Gln Lys Leu Gln Ala Glu Lys His Asp Val Pro  
50 55 60  
Asn Arg His Glu Ile Ser Pro Gly His Asp Gly Thr Trp Asn Asp Asn  
65 70 75 80  
Gln Leu Gln Glu Met Ala Gln Leu Arg Ile Lys His Gln Glu Glu Leu  
85 90 95

09629469.072800

Thr Glu Leu His Lys Lys Arg Gly Glu Leu Ala Gln Leu Val Ile Asp  
100 105 110  
Leu Asn Asn Gln Met Gln Arg Lys Asp Arg Glu Met Gln Lys Glu Leu  
115 120 125  
Ala Glu Ala Ala Lys Glu Pro Leu Pro Val Glu Gln Asp Asp Asp Ile  
130 135 140  
Glu Val Ile Val Asp Glu Thr Ser Asp His Thr Glu Glu Thr Ser Pro  
145 150 155 160  
Val Arg Ala Ile Ser Arg Ala Ala Thr Lys Arg Leu Ser Gln Pro Ala  
165 170 175  
Gly Gly Leu Leu Asp Ser Val Thr Asn Ile Phe Gly Arg Arg Ser Val  
180 185 190  
Ser Ser Phe Pro Val Pro Gln Asp Asn Val Asp Thr His Pro Gly Ser  
195 200 205  
Gly Lys Glu Val Arg Val Pro Ala Thr Ala Leu Cys Val Phe Asp Ala  
210 215 220  
His Asp Gly Glu Val Asn Ala Val Gln Phe Ser Pro Gly Ser Arg Leu  
225 230 235 240  
Leu Ala Thr Gly Gly Met Asp Arg Arg Val Lys Leu Trp Glu Val Phe  
245 250 255  
Gly Glu Lys Cys Glu Phe Lys Gly Ser Leu Ser Gly Ser Asn Ala Gly  
260 265 270  
Ile Thr Ser Ile Glu Phe Asp Ser Ala Gly Ser Tyr Leu Leu Ala Ala  
275 280 285  
Ser Asn Asp Phe Ala Ser Arg Ile Trp Thr Val Asp Asp Tyr Arg Leu  
290 295 300  
Arg Val Arg Pro Ser  
305

<210> 10537  
<211> 1670  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (204).. (605)

<400> 10537  
gggcaaaccc ttgaaaaat attctaaatg aaaatgacat agtattcata gtggaaaaag 60  
tgcctttaga aaaggaagaa acaagtcata ttgaagaact tcaatctgaa gaaactgcca 120  
tatctgattt ctctactggc gaaaatgttg gaccacttgc tttaccagtt gggaaggcaa 180  
ggcagttaat tggactttac accatggctc acaatcctaa tatgacccat ttgaagatta 240  
atctgcctgt tactgccctt ccccccttt gggttaagatg tgacagttca gatcctgaag 300  
gtacttgttg gctaggagct gagcttatca caacaaacaa cagcattaca ggaattgtct 360  
tatatgtggc cagttgtaaa gctgataaaa attattctgt aaatcttgaa aacctaaaaa 420  
atttacacaa gaaaagacat cacttgtcta ctgtaacatc caaaggcttt gccagtatg 480

09529469.072800



```

agctcttttaa gtcctctgcc ttggatgata caatcacago atcacaaaact gcgatcgctt 540
tggaatatttc ctggagtcct gtggatgaga ttcttcaaat ccctccactc tcttcaactg 600
caatctgaat attaaagtgg aatcaggaga gccagagggt cctttgaatc atctctacag 660
agaactgaaa tttcttcttg ttttggtgta tggtttgagg actggtgtca ctgaatggct 720
cgagccctg gaagcaaaat ctgctgttga acttgttcag gaatttctga atgacttaaa 780
taagctggat ggatttggtg attctacaaa aaaagacact gaggttgaga ccttgaagca 840
tgacactgct gcagtcgac gttccgtcaa gcgtcttttc aaagttcgga gtgatcttga 900
ttttgctgag caactgtggt gcaaaatgag cagtagtggt atttcatacc aagactaggt 960
gaagtgtttc acattgatca tccagagtct acaacgtggt gatatacagc catggctcca 1020
tagtggaagt aacagtttac taagtaagct cattcatcag tottatcatg gaaccatgga 1080
cacagtttct ctgagtgga ctattccagt tcaaatgctt ttggaaattg gtttggacaa 1140
actaaagaaa gattatatca gttttttcat aggtcaggaa cttgcatctt tgaatcattt 1200
ggaatacttc attgctccat cagtagatat acaagaacag gtttatcgtg tccaaaaact 1260
ccaccatatt ctgaaatat tagtcagttg catgccttct attaaatctc aacatgaact 1320
cctcttttct ttaacacaga tctgcataaa gtattacaaa caaaatcctc ttgatgagca 1380
acacattttt cagctgccag tcagaccaac tgctgtaaag aacttatatc aaagtgagaa 1440
gccacagaaa tggagagtgg aaatatatag tggtcaaaag aagattaaga cagtttgga 1500
actgagtgac agctcaccct taggccatct gaattttcac aaacctgatt tttcggaatt 1560
aacactaagc ggtagcctgg aagaaaggat attctttact aacatgggta cctgcagcca 1620
ggtgcatttc aagtgaagtg tgctgatgaa gtctcttata agcacaagcc 1670

```

<210> 10538  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<400> 10538

Met	Ala	His	Asn	Pro	Asn	Met	Thr	His	Leu	Lys	Ile	Asn	Leu	Pro	Val
1				5					10					15	
Thr	Ala	Leu	Pro	Pro	Leu	Trp	Val	Arg	Cys	Asp	Ser	Ser	Asp	Pro	Glu
			20					25					30		
Gly	Thr	Cys	Trp	Leu	Gly	Ala	Glu	Leu	Ile	Thr	Thr	Asn	Asn	Ser	Ile
		35				40						45			
Thr	Gly	Ile	Val	Leu	Tyr	Val	Val	Ser	Cys	Lys	Ala	Asp	Lys	Asn	Tyr
	50					55					60				
Ser	Val	Asn	Leu	Glu	Asn	Leu	Lys	Asn	Leu	His	Lys	Lys	Arg	His	His
65					70					75				80	
Leu	Ser	Thr	Val	Thr	Ser	Lys	Gly	Phe	Ala	Gln	Tyr	Glu	Leu	Phe	Lys
			85					90						95	
Ser	Ser	Ala	Leu	Asp	Asp	Thr	Ile	Thr	Ala	Ser	Gln	Thr	Ala	Ile	Ala
		100					105					110			
Leu	Asp	Ile	Ser	Trp	Ser	Pro	Val	Asp	Glu	Ile	Leu	Gln	Ile	Pro	Pro
	115					120					125				
Leu	Ser	Ser	Thr	Ala	Ile										
130															

09629459.072800

<210> 10539  
 <211> 1736  
 <212> DNA  
 <213> Homo sapiens

<400> 10539  
 gagtaaaggt gactttttgtt atgtttttaga agagacttggg ggcatttttgc ctctgcccta 60  
 gagattttgtg gaacttttgaa ctttaagaaag ttgattttagg gtatctggca gaagaaaattt 120  
 ctaagcagca aagcattcaa gaggtgattt ggatactgtt aaaggcattt agttttataa 180  
 gggaagcaga gcataaaaagt ttggaaaatt tgcagcatta ctatgcgata gacaagaaaa 240  
 acccattttc tggggagaga ttcaagccag ctgcggaaat ttgtgtaagt agcaaggagc 300  
 ctaatgttag tccccaaagac catggggaag atgtctccag accatgtcag agaccttcac 360  
 cacagcccct cctatcacag gcccagaagg aaaaagtggg tttgtgggccc tgggtccaggg 420  
 tccccttgct gtgtgcaacc tagggatgtg gcacctgtg tcccagctgc tgcctcagct 480  
 gtggctgaaa gggggccaatg tacagctcag gttgtggcct cagaggggtg aagccccaag 540  
 ctttggcagc gtccacatgg tgttgagcct gcagggtgcac agaagtcaaa gaattgaggt 600  
 ttgggaacct ctacctagat ttcagatgta tggaaatgtc tagatgccc ggcaaaaagt 660  
 tgctatgggg tggggccctc atagagaacc tctgctaggg cagtgtggaa gggaaatgtg 720  
 gggttggagc cccacacag agtccctact ggggcactgc ctagtagagc tgtgagaaga 780  
 gggccattgt cttctagacc ccagaatggc agaccactg acagcttgca ccatgtgcct 840  
 ggaaaagctg cagacactca acgccagccc gtgaaagcat cggggaggga ggctgtaccc 900  
 tgccaagcca caggggcaga gctacccaag accatgggaa ctcacctctt gcatcagtg 960  
 gacctggatt tgagacctgg aatcaaagga gatcattttg gagctttaac atttgactgc 1020  
 cccactgaat tctggacttg catgggaccc gtaaccccat tgttttggcc aatttctctc 1080  
 atttggaatg gctgtattta cccaatacct gcacacccat tgtatctagg aagtaactag 1140  
 cttgcttttg attttacagg cccatagggtg gaagagactt gccttgtctc agatgaaact 1200  
 ttggctctgtg gactttttaag ttaatgctga aatgagttaa gactttggga gactgttggg 1260  
 aaggcacgat tggtttttgaa atgggaggac atgaaattcg gagggcgagc ggggtgtgata 1320  
 tggtttgggt gtgtcctcac ccaaattctca actcgaatta tatctcccag aattcacatg 1380  
 tattgtggga gagaccagc gggaggtaat tgaatcatgg cagccagctt tttccgtgct 1440  
 attctcgtga tagtgaataa gtctcacaag ctctgatggg tttatcagga gtttctgctt 1500  
 ttgctgcttc ctcatcttct cttgccaccg ccatgtaata agtgcctttt gcctcccgcc 1560  
 ataattctga ggctcccca gccatgtgga actgtaagtc caattaaacc tttttttctt 1620  
 cccagcctca ggtatgaatc agcagcatga aaatggattt gaatacagaa gcctaataca 1680  
 atttgctgtc cctcatgggt ctatagatgg ttaataaaac attggggtaa ttaacc 1736

<210> 10540  
 <211> 1461  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (167).. (574)

<400> 10540  
 tttaaggcgc cgggtttccg gggctcctgg ccccgcttat tccggggggg tcggcgggggt 60

09629469.072300

```

cggcctgggc gcccgcgccg ccgctgcgct ttgtccgctg ggcacactgc ttctgggagg 120
ggcggggcaga catggtggcg gcccgccccc cctcctcggc cctagcatgc cgcggccgcc 180
tcgcggctac ccggcttgcc ggtcccagag ggcagccccg ggggtggcgat ggggtcgcgc 240
cgaggcagcg gaggttctgc gggcgactgg aggttggcag tgggcgggag aaagaggaag 300
gcaggcgccg ctgggcctcg gcctctggcg ccgcggtacc ctttgtctcg gcagcctgac 360
ggccccgccg ggctctccgg agaggggaac gggcgcgag ggtggcggtt cctgggcgcc 420
ctgtgctgcg gggccgagag gcgctcgggt ccgcgcgga cggccggac cagacagggt 480
taatggaaga gcctggccag tcccgcgccg ggcggcgca gcgacagcct tggccgccc 540
gactggagtc ctgaggggga gaagcctgcc gttctgaagg ctggggactt ctgccccaaa 600
gacttcgccg ccgagaactg cgggtgcact gcctcaggga agaagttgag aattttgcca 660
ggtcatctct gccagggcac agttcatcac tgttgtttta gtgtgtttcg gtgaagctct 720
ccaagtgtgt tgaatcagcg tgcctagcct caagggtgca tcgtgaaaac tgaacccaaa 780
ggaatgatac aggcctgctt tgttgtgtgc ttcccacttt aagcttgttt tcagtacaaa 840
tactcttgct ttaaacctga ttggactgtg gcgagcggac atctgttcaa aggaggggcc 900
gagaccacag tacttctgaa gggggcttga taatgtggaa acattttaag tttctctcc 960
ggactgtttt gctctctcaa ttcaggcaag ttactgaagt acgtttttta tctagaaaaa 1020
ggtttgatgt agtctgtaaa tggctcctgt aaagtacatt gccatctcag aattaaaaga 1080
tccactctca tttattatgc agaagttagt ggtcattctt tcctgtagat agtttatctc 1140
atgtaaagac ccaccagct tggtttaaat tttttctca ctgacgtata accatcagct 1200
ttgatacttc cattttcagg ctccagacttt gaatttaagg aaactaaaga tgactttatt 1260
ttcttttctc ttggtttttt tttccaaaaa caaaaaataa atccattaca tgtaaacata 1320
gatgataaga gtgacatctt gcatttttgc aaatcttttt aatgcctggg ttaatagaag 1380
attctcagat ctacgtcaga ctgttgtggt tagcacacca tgtaacctct ggaacactcc 1440
actgtacact catacttttt t                                     1461

```

<210> 10541  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

```

<400> 10541
Met Pro Arg Pro Pro Arg Gly Tyr Pro Ala Cys Arg Ser Arg Ala Ala
 1             5             10             15
Ala Pro Gly Trp Arg Trp Gly Arg Ala Glu Ala Ala Glu Val Leu Arg
          20             25             30
Ala Thr Gly Gly Trp Gln Trp Ala Gly Glu Arg Gly Arg Gln Ala Arg
          35             40             45
Leu Gly Leu Gly Leu Trp Arg Arg Gly Thr Leu Cys Leu Gly Ser Leu
          50             55             60
Thr Ala Pro Pro Gly Ser Pro Glu Arg Gly Thr Gly Gly Glu Gly Gly
          65             70             75             80
Gly Ser Trp Ala Pro Cys Ala Ala Gly Pro Arg Gly Ala Arg Val Ala
          85             90             95
Ala Gly Pro Ala Gly Pro Asp Arg Val Asn Gly Arg Ala Trp Pro Val
          100             105             110
Pro Arg Gly Ala Pro Ala Ala Thr Ala Leu Ala Ala Gly Thr Gly Val
          115             120             125

```

009240.69462960

Leu Arg Gly Arg Ser Leu Pro Phe  
130 135

<210> 10542  
<211> 2590  
<212> DNA  
<213> Homo sapiens

<400> 10542  
cacttgggct cgcgtcctcg gccgcgccgc gcggcaccgc ggcccagcag cggggaggcg 60  
gcagctctcc tctacgcccg tcccctcagg gcggctgtgg atgttgccag tattgtcgat 120  
gcttcagagc gacgtttgcc ctgcgacaca ggccggcgccg ctctcctctg tctttatattt 180  
cctggaggcc gacaggagcg gggcccgagt tcgggtgtgg tcgtgagcgt gggggggcact 240  
caggcccgga cgggctctca ggtcgccgac ggccggcggt ggaggccgcg ctggctgtcc 300  
caggtcgtcg ttagctttag ggagccgacg tcggggcggc cccacagagg acgcccgcga 360  
ttcgatggcg atgatgcccg ttttaaattg tgcctctgca gccgggtgga tggatggatc 420  
gtacaccttg ccttttgaga gccgggacct tacgcccgac tgcgtgttat ttctgcggaa 480  
taagaacgca acctttggag gtgaagacga ctgtcggctg gattgaattg gaatcgtgtt 540  
tgtgatgatg cgttttattc tggaaatacg cggctctcgc tgcctttgct ttttgcggc 600  
agaggtttgg gttcttctct aacggtcagg ataaaggcct gtaggcgacg ctgcgcgagc 660  
gagaagctcg cccgcggctg cccgggcgcc cccctctagg tgtgggtgga gccgagcgcg 720  
cggggagaac cgccggcccc gactcagcca ccggtgactg cgggcgaccc gcgggcctgc 780  
ggccagctga tttcaaacat cgttttcctc tttaggttcg gaaaactgag gcgctggaca 840  
aggctggaat acaatatgtg attatacgta cagtaactat gttgtttagt tttttaaatt 900  
gtaaaacaag aagtaaccat tgttccaccg ttctctatta agtttgtgta aattaaaaag 960  
gggctatttt cggtaaaaag tgcagtaggt gtgggtgtgt cgacctgtca tcccagctac 1020  
ttgagaggct gaagggggag gatcgcttga gccaggagg tagaggctgc agtgagtcac 1080  
gatggcacca ctgcactcca gcctgggtga cagagtgaga gcctgtctca acaaccagaa 1140  
aaaaagtatt tagttttaca gtattacaaa gtagtgtcac attagttaa tgaggtttat 1200  
ttatacaaag gtgtaaaatt atgggccaag tactagcctt caagtaattt cgaagtcagc 1260  
gagaatactg gtatataacg gatcaaacct tgttcaagaa ccaaaggcta ttgttcaacg 1320  
aatgggtgtg agacaactgc aaaagactag gaccttacc tcacatgcaa aagactggga 1380  
cccttacctc acaccatttt gcaaaaatta gctcaaaatg gatcaatgac ctaaatgtaa 1440  
gggaaaaact ataaaattct cagaaaaaaa cagaaggata aatttgtata accttggatt 1500  
tgacaggatt cttagctatg acaacaaaaa cacaagcctc cagaagcaag caaacaaaaa 1560  
caccataaac tggacttcat caaaattgaa aacttttagt gttcaaaaaga caccatcaag 1620  
aaagtgaaaa aatccacaga ataggaaaga tatttgcaaa tcatgtatct gataagggat 1680  
ctatgtctat aatatgtaac gaactcttaa taaaaaatag cccacttaa aatgggcaat 1740  
gaatctaaat agacatttct ccaaagaaga aatgcaaatg gccataaagt acatgaaaag 1800  
atgcttgaca tcaccagaga aaagcaaata aagaaactgc aaggttttca ttcttcttca 1860  
cttacaaggc ttcatcttca ctatgatagc cagaataaaa aagtcagata acaacaatta 1920  
ttggcaaaga tatagaggaa aactgcaaac cttatacatt ctgataggag tgtaaaatgg 1980  
tgcagccact ttggaaaaca gtctggcagt tcctcaagtg attaaacatc tagttactat 2040  
atgaccagc aattctacta ctaggtatat acccaagaga aatgaaacca tatgtccaca 2100  
cagaaacttg tacacatttg tttacagaag cattattcag aatcaccaaa aggtggaaac 2160  
aaccctaatg tccatcaact gacacatgca aaagtaaaat atggtatcca tataatggta 2220  
tattatggta tataaaagaa tgaagtactg atacatgctg caacatgaat ggatcctgaa 2280

09629469.072800



gggtttttgt tgtaacataa gctattttct

1830

<210> 10544

<211> 407

<212> PRT

<213> Homo sapiens

<400> 10544

Met	Glu	Glu	Ala	Gly	Gly	Pro	Met	Ala	Arg	Ala	Lys	Ala	Gln	Val	Val	1	5	10	15
Ser	Ala	Thr	Leu	Thr	Trp	Arg	Gln	Trp	Pro	Pro	Thr	Gln	Glu	Glu	Ile	20	25	30	
Lys	His	Gly	Phe	His	Lys	Val	Ser	Leu	Val	Ser	Gly	Ala	Gln	Met	Glu	35	40	45	
Ala	Pro	Gln	Lys	Glu	Met	Phe	Glu	Phe	Ser	Arg	Arg	Glu	Glu	Val	Glu	50	55	60	
Val	Asn	Gly	Phe	Ala	Thr	Gln	Glu	Glu	Glu	Thr	Val	Asn	Cys	Gln	Gly	65	70	75	80
Pro	Arg	Asp	Thr	Ala	Gly	Ser	Lys	Asn	Phe	Gln	Ser	His	Gly	Pro	Ile	85	90	95	
Phe	Ser	Lys	Lys	Tyr	Ile	Pro	Pro	Pro	Lys	Glu	Lys	Arg	Pro	Glu	Gly	100	105	110	
Arg	Leu	Lys	Glu	Ala	Val	Asp	Gln	Ser	Asp	Gly	Ser	Arg	Gln	Ala	Pro	115	120	125	
Arg	Thr	Glu	Pro	Pro	Cys	Val	Gly	Ala	Met	Ala	Arg	Thr	Glu	Leu	Leu	130	135	140	
Val	Pro	Leu	Pro	Gly	Pro	Arg	Glu	Pro	Ser	Pro	His	Pro	Gly	Val	Gly	145	150	155	160
Leu	Thr	Ser	Gly	Ser	Ser	Arg	Ser	Leu	Glu	Glu	Tyr	Arg	Val	Thr	Arg	165	170	175	
Thr	Val	Arg	Thr	Thr	Thr	Val	Val	Gly	Gly	His	Val	Asp	Arg	Arg	Met	180	185	190	
Ser	Ser	Ser	Val	Thr	Val	Arg	Pro	Val	Ser	Ser	Gly	Glu	Ala	Leu	Pro	195	200	205	
Arg	Gly	Arg	Gln	Val	Ser	Arg	Met	Val	Pro	Pro	Val	Val	Val	Gly	Ser	210	215	220	
Pro	Pro	Gly	Ser	Pro	Ser	Arg	Ser	Gln	Ala	Val	Lys	Val	Leu	Ser	Asn	225	230	235	240
Leu	Val	Pro	Ala	Gly	His	Ser	Pro	Pro	Ala	Ser	His	Leu	Pro	Arg	Pro	245	250	255	
Thr	Ala	Gly	Gly	Pro	Arg	Ser	Thr	Gly	Leu	Gly	Ser	Thr	Val	Gly	Ala	260	265	270	
Ala	Leu	Arg	Gln	Leu	Pro	Glu	Thr	Gly	Thr	Ala	Glu	Leu	Lys	Asp	Ser	275	280	285	
Ser	Ala	Leu	Ala	Ser	Thr	Gly	Ile	Pro	Ala	Ser	Ala	His	Leu	Pro	Lys	290	295	300	
Asn	Gln	Asp	Ala	Pro	Ala	Ala	Cys	Pro	Asp	Arg	Asp	Gln	Gly	Arg	Ala				

09629469.072300

305		310		315		320									
Pro	Asp	Ala	Arg	Ala	Cys	Glu	Leu	Trp	Gln	Val	Leu	Gly	Ala	Pro	Ser
		325							330					335	
Ser	Thr	Glu	Leu	Pro	Leu	Gln	Thr	Ser	Gln	Gly	Gln	Ala	Ser	Val	Pro
		340						345					350		
Ser	Ser	Pro	Arg	Leu	Glu	Thr	His	Val	Pro	Ser	Pro	Gly	Leu	Thr	His
		355					360					365			
Pro	Ala	Lys	Gln	Pro	Val	Val	Pro	Thr	His	Pro	Gly	Ala	Arg	Leu	Thr
	370					375					380				
Pro	Leu	Val	Leu	Pro	Pro	Lys	Lys	Arg	Thr	Gly	Pro	Trp	Thr	Pro	Leu
385				390						395					400
Leu	Pro	Pro	Ser	Cys	Pro	Trp									
				405											

<210> 10545  
 <211> 1608  
 <212> DNA  
 <213> Homo sapiens

<400> 10545

caagttatgc	cctgacctgg	aaattcccca	gagttgctaa	aagaactgaa	tgggggatac	60
tgtacataag	agcacttaag	caacttaaaa	tgtcacatgt	agggacatat	gcgtgtcatg	120
tgaatagcag	ctgcattttg	aagttgcaat	aagtgtgagg	aaaatgtgct	tgtagctca	180
gctctagaca	gatccatgga	tagaaagaca	tagacatgga	tcccatcca	gctaagtatt	240
tgcaatccgc	aggtgaagcc	tggaaacca	gagaaatgga	cctgttccat	ccgtgacaga	300
agcgctccca	ggacctaaat	taaagggatg	ttagaatgtt	ttgagaatct	tggcagggcc	360
attaggtagt	gtttgtagct	tttggatgct	tttgggtggag	ggaaaatgag	atgggctcac	420
ttgggaggto	tgcoctgcagt	ttccatccaa	atttctaato	aacgtttgtg	ttttatcatc	480
catttccgga	atcattaccc	cttaaaatgt	gaggaaaacg	actctccttt	tcttcaactc	540
cccatotitt	ccaaataacc	ctgcgagttt	ttgttgccaa	cagcttttcc	caatgtgcgt	600
gtacttacca	acgtccagac	tcctccctcc	catcgccag	ccttgcttgg	tctagctatt	660
attcaaaggg	gaacatgcgt	gagatatcac	tttgtttttg	ccatctaatt	gattccaccc	720
cccaaagtat	ctgactttga	cactcaggct	catctgcagg	accgaggggt	gtttccctc	780
ccctcccgtt	ggctgggctaa	atgggttaat	agaatacatt	ctcttttcct	tttccgtgtt	840
ttgtctggcg	tttgcaatgc	caagattttt	ttccagatgt	cccctatttc	ctatttccac	900
ataccgcaca	tgaatcatca	tctggcagag	gaatcgtgag	aatccatgcg	atcagtgtgc	960
gttcccacat	tcacctactt	ttgtcttttt	tgatagtctt	ttgaaaacaa	tgaatttttt	1020
taaaaatatg	cctgaattca	agggtaaaat	atcaacaatg	taccctagaa	aagcccctgg	1080
aagcagatct	atgctaaatg	gtttatttta	ttctgcacac	gaggcccacc	cgtcgcctggc	1140
tcccctatgc	cttggacgtc	actgatacac	acacatcccg	ttcccgaaca	gggagagtga	1200
gctgcacatt	ctcgtttcca	gctccacttc	ctagatctgc	ccaccgtaaa	atctgccctt	1260
ttgccatgcg	ctgtgggacc	tgtagacttc	aggagagacc	atcatacaaa	ttgatggctc	1320
ttgatttgca	gctgtatctg	gagcttaccg	aatctagtgc	agctttaaaa	ataggggagcc	1380
gattctgttt	ccaagttcag	aaggagcagc	gatttggcat	ctaccggttc	ctgcccttct	1440
tttttgtcct	gggaggaacg	atggagtgga	tcatgattaa	agtgcgcgtg	ggccaggaga	1500
cottctatga	tgtctaccgt	agaaaagcct	cagaaagaca	gtatcagaga	aggctggaag	1560
atgaatgaga	ctgaacttca	gcagtcaata	aagtcaatat	gaattttt		1608

09629459.072300

<210> 10546  
<211> 1560  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (5).. (1558)

<400> 10546  
aacaatgctc attgaagctg caaagggtgg ccatactaata gtagtttctt atctgttgga 60  
ttatccaaat aatgtttctgt cagttcccac cacagatgtg tctcagctcc ctccaccttc 120  
tcaagatcag tctcaggtgc cacgtgtgcc aacgcataca cttgccatgg ttgtacctcc 180  
ccaggaacct gacagaactt cacaggagaa ctctcctgcc cttttaggag tgcaaaaagg 240  
tacatccaag cagaagtcca gttccctcca ggtagcagat caggacctac tgccatcttt 300  
tcaccatac cagcctttgg agtgcatagt agaggagact gaaggcaagc tgaatgaact 360  
gggacaaaga attagtgcata ttgaaaaagc acagcttaag tcaactggagt taattcaagg 420  
tgaacctctg aacaaagata agatagaaga acttaaaaag aacagagaag agcaagtcca 480  
gaagaagaag aaaatattga aagaactgca gaaagtggaa aggcagttgc agatgaaaac 540  
acagcagcaa tttaccaaag aatacttgga aaccaaaggc cagaaagaca cagtgtctct 600  
acaccaacag tgctctcata gaggagtctt ccagaaaggg gaaggagatg gtagtctccc 660  
agaggatcac ttttcagagt tacctcaggt tgacacaatc ttatttaaag ataattgatgt 720  
tgatgatgag caacagtctc caccatcggc agaacagatt gattttgtcc cagtcacagc 780  
tttatcatct ccacagtgtg acttttccag tgacttaggt tctaattgga caaattctct 840  
tgaacttcag aaagtatcag gtaatcagca gattgtagga cagcctcaga ttgctattac 900  
tgacatgat caggggctgt tagttcaaga accagatgga ctaatggttg caactccagc 960  
tcagacgctt accgacactc ttgatgacct gatagcagct gtgagtacca gagggtcccac 1020  
tggttccaac agttcttctc agaccacaga gtgtcttaca cctgaatcct gttcgcagac 1080  
tacaagcaat gtggcttccc aatcgatgcc tctgtgtgat ccttcagttg acattgatgc 1140  
acatactgag agcaatcatg acacagcatt aacactagct tgtgcaggtg gtcattgaaga 1200  
acttgtatct gtgctcattg cacgggatgc caaaattgaa cacagagaca aaaaagggtt 1260  
cacaccacta atcctggcag caacagcagg gcatgttgga gttgttgaaa tccttttgga 1320  
taaagggtgga gatatagaag cacagtctga acgaactaag gatactccgc tttcattggc 1380  
atgttctggt ggacgtcagg aggtggtaga cttgctgctg gctcgagggtg caaataaaga 1440  
acataggaac gtatctgatt atacaccact gagtctagct gcgtctggag gatattgtaa 1500  
tatcattaag attctgctta atgctggggc agaaattaat tcaaggactg ggagtaaact 1560

<210> 10547  
<211> 518  
<212> PRT  
<213> Homo sapiens

<400> 10547  
Met Leu Ile Glu Ala Ala Lys Gly Gly His Thr Asn Val Val Ser Tyr  
1 5 10 15

009227069462960



Leu	Leu	Asp	Tyr	Pro	Asn	Asn	Val	Leu	Ser	Val	Pro	Thr	Thr	Asp	Val
			20					25					30		
Ser	Gln	Leu	Pro	Pro	Pro	Ser	Gln	Asp	Gln	Ser	Gln	Val	Pro	Arg	Val
		35					40					45			
Pro	Thr	His	Thr	Leu	Ala	Met	Val	Val	Pro	Pro	Gln	Glu	Pro	Asp	Arg
		50				55					60				
Thr	Ser	Gln	Glu	Asn	Ser	Pro	Ala	Leu	Leu	Gly	Val	Gln	Lys	Gly	Thr
65					70					75					80
Ser	Lys	Gln	Lys	Ser	Ser	Ser	Leu	Gln	Val	Ala	Asp	Gln	Asp	Leu	Leu
				85					90					95	
Pro	Ser	Phe	His	Pro	Tyr	Gln	Pro	Leu	Glu	Cys	Ile	Val	Glu	Glu	Thr
			100					105					110		
Glu	Gly	Lys	Leu	Asn	Glu	Leu	Gly	Gln	Arg	Ile	Ser	Ala	Ile	Glu	Lys
		115					120					125			
Ala	Gln	Leu	Lys	Ser	Leu	Glu	Leu	Ile	Gln	Gly	Glu	Pro	Leu	Asn	Lys
		130				135					140				
Asp	Lys	Ile	Glu	Glu	Leu	Lys	Lys	Asn	Arg	Glu	Gln	Val	Gln	Lys	
145					150					155				160	
Lys	Lys	Lys	Ile	Leu	Lys	Glu	Leu	Gln	Lys	Val	Glu	Arg	Gln	Leu	Gln
				165					170					175	
Met	Lys	Thr	Gln	Gln	Gln	Phe	Thr	Lys	Glu	Tyr	Leu	Glu	Thr	Lys	Gly
			180					185					190		
Gln	Lys	Asp	Thr	Val	Ser	Leu	His	Gln	Gln	Cys	Ser	His	Arg	Gly	Val
		195					200					205			
Phe	Pro	Glu	Gly	Glu	Gly	Asp	Gly	Ser	Leu	Pro	Glu	Asp	His	Phe	Ser
		210				215					220				
Glu	Leu	Pro	Gln	Val	Asp	Thr	Ile	Leu	Phe	Lys	Asp	Asn	Asp	Val	Asp
225					230					235				240	
Asp	Glu	Gln	Gln	Ser	Pro	Pro	Ser	Ala	Glu	Gln	Ile	Asp	Phe	Val	Pro
				245					250					255	
Val	Gln	Pro	Leu	Ser	Ser	Pro	Gln	Cys	Asn	Phe	Ser	Ser	Asp	Leu	Gly
			260					265					270		
Ser	Asn	Gly	Thr	Asn	Ser	Leu	Glu	Leu	Gln	Lys	Val	Ser	Gly	Asn	Gln
		275					280					285			
Gln	Ile	Val	Gly	Gln	Pro	Gln	Ile	Ala	Ile	Thr	Gly	His	Asp	Gln	Gly
		290				295					300				
Leu	Leu	Val	Gln	Glu	Pro	Asp	Gly	Leu	Met	Val	Ala	Thr	Pro	Ala	Gln
305					310					315				320	
Thr	Leu	Thr	Asp	Thr	Leu	Asp	Asp	Leu	Ile	Ala	Ala	Val	Ser	Thr	Arg
				325					330					335	
Val	Pro	Thr	Gly	Ser	Asn	Ser	Ser	Ser	Gln	Thr	Thr	Glu	Cys	Leu	Thr
			340				345						350		
Pro	Glu	Ser	Cys	Ser	Gln	Thr	Thr	Ser	Asn	Val	Ala	Ser	Gln	Ser	Met
		355					360					365			
Pro	Pro	Val	Tyr	Pro	Ser	Val	Asp	Ile	Asp	Ala	His	Thr	Glu	Ser	Asn
		370				375					380				
His	Asp	Thr	Ala	Leu	Thr	Leu	Ala	Cys	Ala	Gly	Gly	His	Glu	Glu	Leu
385					390					395					400

008220" 69462960

Val Ser Val Leu Ile Ala Arg Asp Ala Lys Ile Glu His Arg Asp Lys  
405 410 415  
Lys Gly Phe Thr Pro Leu Ile Leu Ala Ala Thr Ala Gly His Val Gly  
420 425 430  
Val Val Glu Ile Leu Leu Asp Lys Gly Gly Asp Ile Glu Ala Gln Ser  
435 440 445  
Glu Arg Thr Lys Asp Thr Pro Leu Ser Leu Ala Cys Ser Gly Gly Arg  
450 455 460  
Gln Glu Val Val Asp Leu Leu Leu Ala Arg Gly Ala Asn Lys Glu His  
465 470 475 480  
Arg Asn Val Ser Asp Tyr Thr Pro Leu Ser Leu Ala Ala Ser Gly Gly  
485 490 495  
Tyr Val Asn Ile Ile Lys Ile Leu Leu Asn Ala Gly Ala Glu Ile Asn  
500 505 510  
Ser Arg Thr Gly Ser Lys  
515

<210> 10548  
<211> 1739  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (55).. (402)

<400> 10548  
gaaaactcac agataaagtt atagttatct cagggttctg aaaagacgca gaacatgaag 60  
ggactcagaa gtctggcagc aacaaccttg gctcttttcc tgggtgtttgt tttcctggga 120  
aactccagct gcgctccgca gagactgttg gagagaagga actggactcc tcaagctatg 180  
ctctacctga aaggggcaca gggtcgccgc ttcctctccg accagagccg gagaaaggac 240  
ctctccgacc ggccactgcc ggaaagacga agcccaaata cccaactact aactattccg 300  
gaggcagcaa ccatcttact ggcttccctt cagaaatcac cagaagatga agaaaaaac 360  
tttgatcaaa ccagattcct ggaagacagt ctgcttaact ggtgaaaata tactggatta 420  
tgtttaatta tggttctatt ctctttgaaa acatgaacca tgtgaataaa accttggac 480  
ccttttatct catttgtaat ctttaagaaca cacacagata gttttattct ttcagaaaca 540  
gaatatatat aggatgctta gctgagaaca tcatcttctt tcattgcttc aggtcctgtt 600  
tagatgacca aaaatgtttt cagatcacct tgtgtcttac tcttgagttt cttagaatat 660  
ttataattat aaggctgaag actaaagtgt tctttccttt taactatagc cagtacctgt 720  
cttgatotta gttgtgtttt ttttttttcc attttggttac ccacttgcatt tttgttttca 780  
ctcagcagaa attctccttc tctgttttcc ttttatccca tccccaagaa tgtggaagga 840  
aggtgagaaa catggcagga tgggaaatag gagagtatga ctctctatag ctcatccagg 900  
agtaatcaat taagaagata aattggatga ctgtggagaa gctctgtgat aggaacactt 960  
cagtgtgggt gctgagagga gacagtcatt gaggtagaag gtttgccaaa gatccagagc 1020  
tcagagctcc ctttgtgctc tttgggaatt accttgcaat cagtttagaa acatggatct 1080  
aaaagttact gggaaataag cagatggaga cacactctgt tgtttacgta ttggaagaag 1140  
ggaacaagcc agttttgtta gaggttaactc attttccatg accaaacaga ctcaacagat 1200

09629469.072300

tcaagtactc tgcttactct aattgactag actctagggtt ttatttgaca tcatagcatt 1260  
acataaatca ctctgataac ataagtgcac agtaatatgc ctgatctctt cctttttaaa 1320  
agccaacttg agttcagtag catctgaata cacacacatg cacatatacc cacacacgca 1380  
tacacaccta ctctgttgga aaacataata atgtatttat ttagaattat aatatgacca 1440  
tcatgttaat tattttttac ctaatcagag ttgttattga caaatgtcat aagtggaaag 1500  
tattaattct tattgtcatc agtatttagc cattatttag tagctcaaga atatctttat 1560  
gtgaatgtct ctgtaacttg gaattgcaat ttactgtgt taagtaatca gaactctgct 1620  
tataagattt atctgtatct tgtttcataa ttttaaatg aaactaaatt caagttaatg 1680  
taatgttgat ctccgtcgaa aaataacttg tgagcattaa aatatctgta tggcattat 1739

<210> 10549  
<211> 116  
<212> PRT  
<213> Homo sapiens

<400> 10549  
Met Lys Gly Leu Arg Ser Leu Ala Ala Thr Thr Leu Ala Leu Phe Leu  
1 5 10 15  
Val Phe Val Phe Leu Gly Asn Ser Ser Cys Ala Pro Gln Arg Leu Leu  
20 25 30  
Glu Arg Arg Asn Trp Thr Pro Gln Ala Met Leu Tyr Leu Lys Gly Ala  
35 40 45  
Gln Gly Arg Arg Phe Ile Ser Asp Gln Ser Arg Arg Lys Asp Leu Ser  
50 55 60  
Asp Arg Pro Leu Pro Glu Arg Arg Ser Pro Asn Pro Gln Leu Leu Thr  
65 70 75 80  
Ile Pro Glu Ala Ala Thr Ile Leu Leu Ala Ser Leu Gln Lys Ser Pro  
85 90 95  
Glu Asp Glu Glu Lys Asn Phe Asp Gln Thr Arg Phe Leu Glu Asp Ser  
100 105 110  
Leu Leu Asn Trp  
115

<210> 10550  
<211> 1330  
<212> DNA  
<213> Homo sapiens

<400> 10550  
agtctgggtc tggagcctga gccctgcgga acctggcgcc toggccccac cccgcccgtg 60  
cctgcactta tttattgttg ttatttctta ccgcggagcc ccgcagtcgg gtcctcccgc 120  
ccgctcccgc gcagcgttag cattctccag tccctcagtc ccttcccgcg cgggtgcgccg 180  
cagccgaggg gatgcgcctc attcagaaca tgtgcacat ogccagtag cccgcgccgg 240  
gcaacgccgc ggctccgac tgctgtgttg gcgcgcgcgg ccgcgcctg gtcaagatcg 300  
ccgtgggtgg cgccagcggc gtgggcaaga ccggtgagtc gtgcgcctta gccctgggtc 360  
tggtcttgga cgaccctga cgggagttga ggctgaacaa ggctggggga gcggtgggag 420

09629469.072300

```

ctgcagcccg accgctctcc gtccccgcgc agggagccgc tgccccttgg gagtgggctt 480
agccgttgtc tacgccaccc gcctgottcc acagacgggg gaaacaagga tcaagaatgg 540
ccaggcagct ttctggggac caccggcacc gccgccatca gaactttggg gtgtttgagc 600
ctctggcaat gcctggcaca gaaaggggag ttagtgaagc tagccccctt gggaggtctt 660
gaaggttagg aagacatggg tctactggaa ggcttaggtg tggctcagcc gggctcagag 720
gaggggggtg gccagtgag ccttcagct gcacagagcc ataattcacg atgccttcta 780
gccccctcct ttttgtctgg aaagaagggt caaggagcta cagggtagga atttcacttg 840
gtggccatct atggctttct ttgggagaac tgttttccag gcaggggggtg ggggtggagaa 900
caatctaact tccaaggtta acactttgac gttctttttt ctgacgtgca gcactgggtg 960
tccggttcct caccaaacga ttcatcgggt actatgaaag aaatgcaggt gagacaatgc 1020
atttgagaaa aattctgtcc cattgcagga ggactgcggt tcccattttc cagcgcttcc 1080
caggggaggtt ctttcagtga cagtccgagc ctgaggatcc cgccacttaa aactttcccc 1140
agtccccagc cctccatggc gccccctcc cataactacc atctggcctc attccattcc 1200
aagcccattc atcattttat caagtgcctg aaagtattcc ccttgggtat ttttaactat 1260
agtgacccca gttggaagca ccctttgtag tcaagaacct ctcccttcaa aacactcctg 1320
caaaagtcgt                                     1330

```

<210> 10551  
 <211> 1507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (101).. (571)

```

<400> 10551
gacaccctct ccgcgatgac tgtgagtggg ccagggaccc ccgagccccc gccggccacc 60
cccggggcca gctcagtgga gcagctgcgg aaggagggca atgagctgtt caaatgtgga 120
gactacgggg gcgccctggc ggcctacact caggccctgg gtctggacgc gacgccccag 180
gaccaggccg ttctgcaccg gaaccgggac gcctgccacc tcaagctgga agattacgac 240
aaagcagaaa cagaggcatc caaaggtagg ggaatggtgg gccctggtgt ggagctgtag 300
ggcttctgtg gtgggcaagg actctgggac cgctgcaccg tcacattctc ctcccttggc 360
cccagagaca catctgcctt ctttctttcc cactgcctcg ggcccttcc tttctgcagc 420
taccctcacc tttctgagg ctgaagcacc gagccccaca ttctgtcccc ccaccttctt 480
ctggcccttc ctcgagatct ttccctactg ctcttgctg gagacagtgg cctcatgggt 540
gctgacagcg ctctgtttg tgctcagcca ttgaaaagga tgggtggggat gtcaaagcac 600
tctaccggcg gagccaagcc ctagagaagc tgggcccgcct ggaccaggct gtcccttgacc 660
tgacagatg tgtgagcttg gagcccaaga acaaagtitt ccaggaggcc ttgcggaaca 720
tcgggggcca gattcaggag aaggtgcgat acatgtcctc gacggatgcc aaagtggaaac 780
agatgtttca gatactgttg gaccagaag agaagggcac tgagaaaaag caaaaggctt 840
ctcagaacct ggtggtgctg gccagggagg atgctggagc ggagaagatc ttccggagta 900
atggggttca gctcttgcaa cgtttactgg acatgggaga gactgacctc atgctggcgg 960
ctctgcgtac gctggttggc atttgctctg agcatcagtc acgggtaggt ggagtggaga 1020
ggctggttac agcttcagtc cctttgtctg tctgtccatc cattcctcca tccaccatc 1080
tgtccatccg cccatctgcc cgtccatcca tccatccact ctccaccct ctaccctta 1140
ccttattcta aaaagaactt aggtaggtta tgggtgcctca cacctgtaat ccagcactt 1200

```

tggggggctg aggcaggtgg atcacttgag gtcaggagtt caagaccagc ctggccaaca 1260  
aggcgaaacc ctgtctctac taaaaataaa aaaattagcc gggcatggta gtgcacgcct 1320  
gtaatcccag ctactcagga ggctgaggca cgagacttgc ttgaaccag gaggtggagg-1380  
ttgtggtgag ctgagatcgc gccactgcac tccagcctgg gtgacagagc gagactatct 1440  
cagaaacaaa acaaaacaaa acaacaaaaa aagaaaaggc agagtacaag gagatacatg 1500  
taacaag 1507

<210> 10552  
<211> 157  
<212> PRT  
<213> Homo sapiens

<400> 10552  
Met Ser Cys Ser Asn Val Glu Thr Thr Gly Ala Pro Trp Arg Pro Thr  
1 5 10 15  
Leu Arg Pro Trp Val Trp Thr Arg Arg Pro Arg Thr Arg Pro Phe Cys  
20 25 30  
Thr Gly Thr Gly Pro Pro Ala Thr Ser Ser Trp Lys Ile Thr Thr Lys  
35 40 45  
Gln Lys Gln Arg His Pro Lys Val Gly Glu Trp Trp Ala Leu Val Trp  
50 55 60  
Ser Cys Arg Ala Ser Val Val Gly Lys Asp Ser Gly Thr Ala Ala Pro  
65 70 75 80  
Ser His Ser Pro Pro Leu Ala Pro Glu Thr His Leu Pro Ser Phe Phe  
85 90 95  
Pro Thr Ala Ser Gly Leu Ser Phe Ser Ala Ala Thr Leu Thr Phe Ser  
100 105 110  
Glu Ala Glu Ala Pro Ser Pro Thr Phe Val Pro Pro Thr Phe Phe Trp  
115 120 125  
Pro Phe Leu Glu Ile Phe Pro Tyr Cys Ser Cys Leu Glu Thr Val Ala  
130 135 140  
Ser Trp Val Leu Thr Ala Leu Leu Phe Val Leu Ser His  
145 150 155

<210> 10553  
<211> 1531  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (54).. (671)

<400> 10553  
agagggagac ccgcggcaac cccggcaacc cagggtctgg cgtcgtgcc accatgacgg 60  
gaagcaatat gtcggacgcc ttggccaacg ccgtgtgcc gcgctgccag gcccgcttct 120

000220" 09462960

```

ccccgccga ggcgattgtc aacagcaatg gggagctgta ccatgagcac tgcttcgtgt 180
gtgccagtg cttccggccc ttccccgagg ggctcttcta tgagtttgaa ggccggaagt 240
actgcgaaca cgacttccaa atgctgtttg ctccgtgctg tggatcctgc ggtgagttca 300
tcattggccg cgtcatcaag gccaagtgtg agaagccatt cctggggcac cggcactatg 360
agaagaaggg cctggcctac tgcgagactc actacaacca gctcttcggg gacgtctgct 420
acaactgcag ccatgtgatt gaaggcgatg tgggtgtcggc cctcaacaag gcctgggtgtg 480
tgagctgctt ctctgtctcc acctgcaaca gcaagctcac cctgaagaac aagtttgttg 540
agttcgacat gaagcccgtg tgtaagaggt gctacgagaa gttcccgtg gagctgaaga 600
agcggctgaa gaagctgtcg gagctgacct cccgcaaggc ccagcccaag gccacagacc 660
tcaactctgc ctgaaggccc tcttgccgag ctgcctctcg gcccctccgc cttctcccct 720
cccgtgttcc atgcttgccc ccctcgtccc catccacctg tgccctccgc atcttaccct 780
ccctttctct ttcctcattg ccttctccct tctgttccc tcatccctgc cttcccatg 840
tctctcctct ccttgccgtt ggcttctgtc tgtgaggagg caggagctgg ggagtgggag 900
cctatgacct cacgtctgac agccatgtcc acctgtgccc acagcttccg cccacagacc 960
tccagggaca ggagcaaatt gcaccacagc tccccgcctg gcctggccct cccagggcgg 1020
ctcagtggct catgctgtcc tgtgagagcc cctgccccag agcggcccca ctaagcgcat 1080
gtggctcctg ggctaccac agccagggca gcctgtctga gccacagggc cagggccatg 1140
cagatggagg cctctgggag ccacctccaa tccctcacca ctactcaac cagtggcaca 1200
gtgtccttgt gccacactg agccagcaag tctgtgtgtc cacaccaca agctacctgg 1260
agggacagga cccacctcca tcttccggaa ggcttccctg gaatcccacc ttggcctccg 1320
ccctcggttc cgccccgcc ctctccccc gaccttgggg cttgtgtcga gcccttgggt 1380
ggggccagga ggaggtgatg gcgtcagagg aggtgtgggt agaggtgact tgttcccacc 1440
tccagggagg acgcttcgtc ttccggccagc gcagacctgg tgtttgtttg tttgttgggc 1500
tcacgcctgc acaatgaagg cttgttcaca c 1531

```

<210> 10554  
 <211> 206  
 <212> PRT  
 <213> Homo sapiens

<400> 10554

Met	Thr	Gly	Ser	Asn	Met	Ser	Asp	Ala	Leu	Ala	Asn	Ala	Val	Cys	Gln
1				5					10					15	
Arg	Cys	Gln	Ala	Arg	Phe	Ser	Pro	Ala	Glu	Arg	Ile	Val	Asn	Ser	Asn
			20					25					30		
Gly	Glu	Leu	Tyr	His	Glu	His	Cys	Phe	Val	Cys	Ala	Gln	Cys	Phe	Arg
		35					40					45			
Pro	Phe	Pro	Glu	Gly	Leu	Phe	Tyr	Glu	Phe	Glu	Gly	Arg	Lys	Tyr	Cys
		50				55					60				
Glu	His	Asp	Phe	Gln	Met	Leu	Phe	Ala	Pro	Cys	Cys	Gly	Ser	Cys	Gly
		65			70					75					80
Glu	Phe	Ile	Ile	Gly	Arg	Val	Ile	Lys	Ala	Lys	Cys	Glu	Lys	Pro	Phe
			85					90						95	
Leu	Gly	His	Arg	His	Tyr	Glu	Lys	Lys	Gly	Leu	Ala	Tyr	Cys	Glu	Thr
			100					105					110		
His	Tyr	Asn	Gln	Leu	Phe	Gly	Asp	Val	Cys	Tyr	Asn	Cys	Ser	His	Val
		115					120					125			

Ile	Glu	Gly	Asp	Val	Val	Ser	Ala	Leu	Asn	Lys	Ala	Trp	Cys	Val	Ser
130						135					140				
Cys	Phe	Ser	Cys	Ser	Thr	Cys	Asn	Ser	Lys	Leu	Thr	Leu	Lys	Asn	Lys
145					150					155					160
Phe	Val	Glu	Phe	Asp	Met	Lys	Pro	Val	Cys	Lys	Arg	Cys	Tyr	Glu	Lys
				165					170					175	
Phe	Pro	Leu	Glu	Leu	Lys	Lys	Arg	Leu	Lys	Lys	Leu	Ser	Glu	Leu	Thr
			180					185					190		
Ser	Arg	Lys	Ala	Gln	Pro	Lys	Ala	Thr	Asp	Leu	Asn	Ser	Ala		
	195						200					205			

<210> 10555  
 <211> 1561  
 <212> DNA  
 <213> Homo sapiens

<400> 10555

tcttgaactc	ctgacctcaa	gtgatccacc	caccttggcc	tcccaaagtg	ctggaattac	60
aggtgtgagc	caccgtgccc	agccaaaatt	cttaaagaat	aaaccaaata	ttaaacaata	120
ttccaattag	aattattttc	agccaaatta	tcatttaagt	gtgagagtaa	aataaagaca	180
ttttcttttt	tcctttctct	tttttttttt	ttttttgaga	tggagtctcg	ctctgtcgcc	240
caggctagag	tgcagtgggtg	caatctcggc	tcactgcaag	ctctgcctca	ggggttcatg	300
ccattctcca	gcctcagcct	ccaagtagc	cgggactaca	ggcgcccacc	accatgcctg	360
actaattttt	tttctatttt	tagtagagac	agggtttcac	cgtgttagcc	aggatgggtc	420
caatctcctg	acctcgtgat	ctgcctgcct	cggcctccca	aagtgttagg	attacagggtg	480
tgagccaccg	cgcccggccg	ataatgtgtt	gttttaaggc	attaattttg	tggtagatac	540
aaaagtaatt	tgtgtgtaca	tacatgcata	tatacatata	tatgtacaca	cacatatatt	600
tgttaaacct	acacacagtg	tttattttat	tatttcgata	aaactattat	tcacagctga	660
gccttgtggt	gcactgtaat	agtttctttt	cgtttttttt	tccctgaagt	taataattac	720
cttgtttctc	atctgcctta	tttttttgta	cctgttgcta	attcctacca	caacttctaa	780
tataatttta	tttttcttta	acaatactgt	taccttagga	cttctttttc	tttttttctt	840
tttaactgac	acataataat	tgtgcatctc	tatggggtag	aatgtgatgt	ttcaatacat	900
gcatacattg	tgtaatgatc	aaaacaggat	agttgggtata	tccatcacct	ccagcattta	960
tcacttcttt	gtggtggggc	taccacactt	tccaatagcc	atcagtattg	ctttccacac	1020
gggcagtcac	agcaggtaaa	agatgtttca	gttccatttt	ttaagttatc	tatcctcttt	1080
cactctgggc	tagttgcttt	ctaggcacat	tgtagctgat	gctctgtgac	ttccttttgt	1140
gggtcatctt	ggaattccca	ttactttccg	gttggaatct	ctgttttctg	gctttcgtgt	1200
cctcctcatg	cttggctcac	tccctcatt	agagcacatc	ttccaggaca	cacatctgtc	1260
catatcaaaa	tccattcatg	gctgggcaca	gtggctcaog	cctotaatcc	caggactttg	1320
ggaggccgag	gcgggtggat	cacctgaggt	taggagtttg	agaccagcct	ggccaacatg	1380
gcaaaatccc	atctctacta	aaaatgcaaa	aattagccgg	gcatggcggc	gggtgcctgt	1440
aatcccagct	actcgtgagg	ctgaggcagg	agaattgctt	gaaccacaaa	ggcagaggtt	1500
gtggtgagcc	gagaatgcgc	cactgcactc	cagcctgggc	tagagagcaa	gggtccatct	1560
c						1561

<210> 10556

00020.69462960

<211> 1543  
<212> DNA  
<213> Homo sapiens

<400> 10556

```

gaataaaatg tacaaatttg ttgtgttttt ttatgtttcta ataatactga gacttctagg 60
tcttaggta attttttagga agatcttgca tgccatcagg agtaaatttt attgtggttc 120
ttaatctgaa gttttcaagc tctgaaattc ataatccgca gtgtcagatt acgtagagga 180
agatcttaca acattccatg tcaaattctgt taccatttat tggcatttag ttttcattta 240
agaattgaac ataattattt ttattgttagc tatatagcat gtcagattaa atcattttaca 300
acaaaagggg tgtgaaccta agactattta aatgtcttat gagaaaattt cataaagcca 360
ttctcttgtc attcagggtcc agaaacaaat tttaaactga gtgagagtct atagaatcca 420
tactgcagat gggtcatgaa atgtgaccaa atgtgtttca aaaattgatg gtgtattacc 480
tgctattgta attgcttagt gcttggctaa tttccaaatt attgcataat atgttctacc 540
ttaagaaaac aggtttatgt aacaaagtaa tgggtgttgaa tggatgatgt cagttcatgg 600
gcctttagca tagttttaag catcattttt tttttttttt tttgaaagtg tgttagcatc 660
ttgttactca aaggataaga cagacaataa tacttcactg aatattaata atctttacta 720
gtttacctcc tctgctcttt gccacccgat aactggatat cttttccttc aaaggaccct 780
aaactgattg aaatttaaga tatgtatcaa aaacattatt tcatttaatg cacatctgtt 840
ttgctgtttt tgagcagtgt gcagtttagg gttcatgata aatcattgaa ccacatgtgt 900
aacaactgaa tgccaaatct taaactcatt agaaaaataa caaattaggt tttgacacgc 960
attcttaatt ggaataatgg atcaaaaaata gtggttcatg accttaccac acacccttgc 1020
tactaataaa atcaataaac acttagaagg gtatgtattt ttagttaggg tttcttgatc 1080
ttggaggatg tttgaaagtt aaaaattgaa tttggtaacc aaaggactga tttatgggtc 1140
tttcctatct taaccaacgt tttcttagtt acctagatgg ccaagtacag tgccctggtat 1200
gtagtaagac tcagtaaaaa agtggatttt taaaaataac tcccaaagtg aatagtcaaa 1260
aatcctgtta gcaaacgtgt atatatgtgt aagtttgttc ttttaacagc tggaatttat 1320
taagatgcat tattttgatt ttatttactg cctaaaacac tttgggtggt attgatggag 1380
ttgggtgatt ttcttccaag tgattaaatg aaatttgacg tatcttttca tccaaagttt 1440
tgtacatcat gttttctaac ggaaaaaaat gttaatatgg cttttttgta ttactaaaaa 1500
tagctttgag attaaggaaa aataaataac tcttgtacag ttc 1543

```

<210> 10557  
<211> 1495  
<212> DNA  
<213> Homo sapiens

<400> 10557

```

ttccttgta accaagttac ttttaaaaag atccttttta aactgattct tcctcagctg 60
ttcttcagcc ctctatactt tttcataaaa gtcaccagtg actgccagtg tgccaaatag 120
aatgaatacc tttcagtgtc cagctgtctt gacctctcgc cagcatttca caccaccac 180
caaccctcag tgaacaaccc tcctccctta gcttttatga caccacaagt ctctggattc 240
tcagagaatc cagaaaaaca agtctctgga ttctctcctc ttacctotca gccacacag 300
gctgagctgt ccttgaaacc tagatggggg aaatgtctgt ggctgtctgt ggtctcttct 360
tttcaggagt tgggtaggga ggaagaatca cagctgtctc tgcttccctc gtctgtctct 420
ctatttcctg agtcccttcc ttttctgaa ctcatgtctc ctcatgocaa coatgtttat 480
gagctcctgc tgggaggaca gcactgtgta gtccttccct ctgtctctcc cagacaacac 540

```

09629469.07600



```

agaggtttta gcctgtttgc taagagaccc catctaagtc agcccaaggg tgtggattag 600
gttttacagc atccaggccg cagtctggct aaactggatt accaggctgg tgggcagctc 660
ctcaccatga tcctgcacca gttagagcct gctgtagttg ggaaggagcc tgggattgtg 720
gtaagatgtg tttccgtgca tgtcagtgct gctaaccagg aggagaacct ggcagggttg 780
gtgcctgctg ctgataacat tcggatggag ggagactagg gagcgcggtg gctgctccct 840
tgctggggct cagctggagt cagcatgact ccttatatca gggcctttcc cactgtgct 900
gatcaccacc acctgcttgc tccagttgtt tctggagttg gaggcagcta ttggttgctt 960
tcttggaggt aaggaggtat atactagaaa gatatctgat ttgagagtct gaacacaaa 1020
atttttggct ctttccatta tgagctgtgt aaccttggat acagtttcct catctataaa 1080
gttgtgggtg gagaatggct gagaacagtg atctctcagc totccagctg taaagatgtt 1140
aattatgatt ttaactctca agatcaggcc acataaggaa cagggggaatt ccagggggtg 1200
gacacagctg ggggagtcca gaccaggcca gggaaaggag actcacaagc caaacagagc 1260
tgctttgggg aaagtcttta tcagctggtg ctgottcctg agccatatgc ccattcctca 1320
agctgtaccc ctttcttggc tatgtaggat gagttcctcc taggccttgg ttaggagtgg 1380
ctattggatt ctaagcgggt ggggcatgag ggaggatatt ttaaaggga gtatagctga 1440
ttttaaaaga acctatacat tcaagaacaa ataaaaaaca gcacttttct ttacc 1495

```

<210> 10558  
 <211> 2132  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1507).. (1776)

```

<400> 10558
ataggccagt gccggggttt aaggggccagg aaaggaagca ttcagggaat ttaggtgtag 60
ccagaagaaa atcaggtcct ggctccccag aagcaagaga gttcaagtga aggaaggagg 120
aggttcctgg atgtggatgt catcatttct gggaacactc ttaaattggag actcagattt 180
cttagccaaa atttagggag gatccagaag aaaccaaaga cgaagcatcc cagttcttgg 240
gtatttcctg aaacagaaga aaatgacaaa ggcccaggaa tcaactgacc tggaggatgt 300
ggctgtggac ttcacctggg aggagtggca gttcctgagc cctgctcaga aggacctgta 360
ccgggatgtg atgttggaga actacagcaa ctttgtgtca gtgggggtatc aagccggcaa 420
acctgatgcc ctcaccaagt tggaacaagg agaaccacta tggacactag aagatgaaat 480
ccacagtcca gccacccag aaattgagaa agctgatgat catctgcagc agcccttgca 540
aaacaaaaaa atactgaaga ggacgggaca acgctatgaa cacggaagaa ctttgaaatc 600
atatttaggt ttaaccaacc agagcagaag atacaacaga aaggagcctg ctgagtttaa 660
tgagatgga gcttttctcc atgataatca tgaacaaatg cctacggaaa ttgaattccc 720
tgaaaagtaga aaacccatca gcaccaagtc acaattcctt aaacatcagc aaacacacaa 780
catagagaaa gcccatgaat gcactgactg tgggaaagct ttctcaaga agtctcagct 840
cactgagcat aagagaattc atacaggaaa gaaacccac gtgtgtagct tgtgtgggaa 900
agccttctac aagaagtaca ggctcactga acacgagaga gctcacagag gagagaaacc 960
ccacgggtgt agcttgtgtg ggaaagcctt ctacaagagg tacaggctca ctgaacacga 1020
gagagctcac aaaggagaaa accatacggg tgcagtgaat gtgggaaagc cttccccagg 1080
aaatctgagc ttactgaaca tcaaaggatt cacacgggaa ttaagcccca tcaatgcagc 1140
gaatgtggga gagctttctc cagaaaatca ctactcgttg tacatcagcg aactcataca 1200

```

```

ggagagaagc ctcatacatg cagtgaatgt ggaaaaggct tcattcagaa gggcaatctc 1260
aacatacatc aacgaactca cactggagag aaaccttatg gatgcattga ctgtggcaag 1320
gccttcagcc agaagtcttg ccttgtagca catcagagat atcatacagg aaagactccc 1380
tttgatgtc ctgaatgtgg gcaaccctgt tcacagaagt caggactcat tagacatcag 1440
aaaattcact caggagagaa accctataaa tgcagtgact gtgggaaagc cttccttaca 1500
aagacaatgc tcattgtaca tcacagaact cacacgggag agagacccta tggctgtgat 1560
gagtgtgaga aagcttactt ctatatgtct tgccttgtaa aacataagag aatacactca 1620
agggagaaac ggggggattc agtgaagggt gaaaatcctt ccacagcaag tcacagctta 1680
agtcctagtg aacatgtgca ggggaaaagc cctgttaata tggtaactgt ggcaatgggtg 1740
gcagggcagt gtgagtttgc ccacatcctg cattcatgat aaacagtttg ctgtttgatc 1800
atatagcctc cagcggaatg ctgagtttgt catgtcccat gggcctttgg ctccctgcac 1860
taatatgtat agtagggttt acaagatatg aaatatattt tactttttta tatcttataa 1920
acctcactac ccctcccaca atattgtttt tcatttacta tcttgatcat agagtttggc 1980
tggggagggg ggcagtttta gaggcttcca cttgggtgtt ctcagaatga tatctcttac 2040
tccgggggcc aaggtagggg ttagcttttg ttctctttgt agtttagatt gtatctcttg 2100
ccttgttcaa gttcacaaat ctttttgtgt at 2132

```

<210> 10559  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 10559

Met	Leu	Ile	Val	His	His	Arg	Thr	His	Thr	Gly	Glu	Arg	Pro	Tyr	Gly
1				5					10					15	
Cys	Asp	Glu	Cys	Glu	Lys	Ala	Tyr	Phe	Tyr	Met	Ser	Cys	Leu	Val	Lys
			20					25					30		
His	Lys	Arg	Ile	His	Ser	Arg	Glu	Lys	Arg	Gly	Asp	Ser	Val	Lys	Val
		35				40					45				
Glu	Asn	Pro	Ser	Thr	Ala	Ser	His	Ser	Leu	Ser	Pro	Ser	Glu	His	Val
	50				55				60						
Gln	Gly	Lys	Ser	Pro	Val	Asn	Met	Val	Thr	Val	Ala	Met	Val	Ala	Gly
65				70				75						80	
Gln	Cys	Glu	Phe	Ala	His	Ile	Leu	His	Ser						
				85				90							

<210> 10560  
 <211> 1574  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (304).. (603)

<400> 10560

```

aaaaaggaga ggaggggctc ctgggaacag ggctcagagg caggcgaggt ccctgattca 60
ctcactcact cactcattca ttctttccca cacacactaa gcagacatgt gccagcacc 120
tcctttgtgc caggcccat ctggatgtcc atgccaggag agaggcaggc agacctgggc 180
ctcccaggat ggaggacgga cgaagaccac ttagcatgat gagaggggaa aagctgaaat 240
gtgagtggga agctcctgct caccacggca gcccctggc tagcacggcc tggcagagtc 300
catatggaag gaaggaacca ggttctatgg gatcatagag gagcggacgt gatgcagcct 360
ggaaaaggcg ccctggagct gagggtaggg atgccaatag gcattagcca ggctgtgggt 420
gggaggtggg gagaggggat ccctgcaaga ggcaccaagg cacaaaaagc agcttcctgg 480
aggggaggtt cggaggtctc ttagcatcct atgaaatccc atagtgtctg gccttggatc 540
ttcccaggaa gcatgagacc cagccaagct gaggacgagg ctgagactct ggcaggcgca 600
tggtgacccc ttctgagga cttccagagg gatgggtgga gaaggacatg agaggtgcct 660
tcctcccatc ctctgccatc ttggtacttg gtggacaccg catagggtcc ccagtcctt 720
cctgcactgc tctgaccctg tgaaggacc atgagttggt tgtactctga aaagtctccc 780
aaccccaata taggtgacc cagcaaagac tccgcttacc ctcatittac caatggggaa 840
actgaggctc cctaccgtca ggtgactgcc ttaaggcgct acaacaaact cacaccaggg 900
ccgattccag ggtgttccac ttttccagt actatcatct tgggccatgg caggcccgtg 960
attggaggag atgagaagga agtggggaag aacttgggtc tcaaaaatag caggcaggaa 1020
ggatccggat cagcacaggg gattggactt gggggcttgg acctgatgg taggggacag 1080
gaccatgatg gggttgaaca gccatccaac ctagaccctt tttgtccta acactcccat 1140
cccactctca gcataatgta gtgggaagtc aggagggttc tgcagtatct gtgggaagga 1200
cccatcacgg cctgtggtct tcctgccta ctgttggctc ctttcttga gtcagaagca 1260
gctggctcag gccaggcggg gtggctcatg cctgtaattc cagcacttta ggaggccaag 1320
gcaggtggat cgcttgaggc caggaattcg agaccagcct ggccaacatg gtgaaacccc 1380
gtctctacta aaaatacaaa aaaattagct tgacatgggt gtcacgcct gtaatccctt 1440
agctactcag gaggctgagg caggagaatc acttgaacct ggcaggtgga ggttacagt 1500
ggccaagatc gtgccattgc actccagcct gggcaataga gtgagactct gtctcaaac 1560
aaataaacia caac 1574

```

<210> 10561  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 10561  
 Met Glu Gly Arg Asn Gln Val Leu Trp Asp His Arg Gly Ala Asp Val  
 1 5 10 15  
 Met Gln Pro Gly Lys Gly Ala Leu Glu Leu Arg Val Gly Met Pro Ile  
 20 25 30  
 Gly Ile Ser Gln Ala Val Gly Gly Arg Trp Gly Glu Gly Ile Pro Ala  
 35 40 45  
 Arg Gly Thr Lys Ala Gln Lys Ala Ala Ser Trp Arg Gly Gly Ser Glu  
 50 55 60  
 Val Ser Glu His Pro Met Lys Ser His Ser Ala Trp Pro Trp Ile Phe  
 65 70 75 80  
 Pro Gly Ser Met Arg Pro Ser Gln Ala Glu Asp Glu Ala Gln Thr Leu  
 85 90 95  
 Ala Gly Ala Trp

100

<210> 10562  
<211> 1796  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (208).. (744)

<400> 10562  
agtgggctcg aaacaaaggg ctgtccgggtg gggattcgtc ggggcgcctt ctgagtggtc 60  
gggtcagaggc ttctcggcct agcagtgccc tcgctgcgcg atctcaggcg ggttctcctc 120  
ggctccgcgc agcccgcgcc gcggtggggg acccggcgca gggcacctg ctgccgaggg 180  
accccgcggc ccgcccgggt gctcgtgatg gggctgatct tcgccaaact gtggagcctc 240  
ttctgtaacc aagaacacaa agtaattata gtgggactgg ataatgcagg gaaaaccacc 300  
attctttacc aattcttaat gaatgaagtg gttcatactt ctccaacccat aggaagcaat 360  
gttgaagaaa tagttgtgaa gaacactcat tttcttatgt gggatattgg tggtcaggag 420  
tctctgcgat catcctggaa cacatattac tcaaatacag agttcatcat tcttgttgtt 480  
gatagcattg acagggaaac actagctatt acaaaagaag aattatacag aatgttggct 540  
catgaggatt tacggaaggc tgcagtcctt atctttgcaa ataaacagga tatgaaaggg 600  
tgtatgacag cagctgaaat ctcgaaatac ctacccctta gttcaattaa ggatcatcca 660  
tggcacattc aatcctgctg tgctctcaca ggagaagggt tatgccaaag tctagagtgg 720  
atgacctccc ggattgggtg gagataactt ttttgcttga aagagactgc tctattttatt 780  
ctgtgacatg aacatttttt cctagtacct ttggctgcta aggcagcagc atgttttaatt 840  
tataacaaca caaacctctg agagcaacac ttgaatcaag tgcagctgaa ctggaacata 900  
aaagattttt tcttaacttt ttttttttta acacactaat cttcagttgg atgaatgtaa 960  
tgtataacta tgttttcagc aacaattctt ctgtttattc taattaatca gtgactgcct 1020  
tgtaagaaat gtttgtcata tgcgagatgt ctctgaaat attcttataa ccttaatgac 1080  
caattgcttt caattcttga ccagcactcc ctccaacca gagaattact ggtttgatag 1140  
agtagtcttg gaaaccatca ggtactgcct gcagacttct ccagcactaa atatatattgt 1200  
tccctctata aaccattcat ctttcggaca gaacttactg taaagaaaga aatctgccta 1260  
gaggatatat gtaaggaaga ttccacatca tgagtacttg ccttttaact ttccccaca 1320  
ttactgttga gtcatggaat aatgtttaag ttgttatttg catggaaatt aagtaggctg 1380  
tttatattatc taaaggaatc aagtccactc ttctgcctgc aacatttggt caaaaactaa 1440  
ccgaggtaaa atattttattt gaaagcccaa ctttgatgtt aaatattctt gaataaatct 1500  
gttattttaa gaatatcaca ttattcaatg catataaaac tatcagaagt tagtaaatca 1560  
taccagcact aaaaataaga caattggaat atatttttagc atcagtttac aaacaacttt 1620  
attatcaaca gaaatttttag ctcttttctt tgcaagatat atcacagctg ctttgggcag 1680  
tagctgaagc cgaagtatga acagtccatt ttgtttctta aaatttgaag tcgtgtctgt 1740  
catagcattt ttactaccag caatatgtta cttaaaaaac tacatggctt tccttg 1796

<210> 10563  
<211> 179  
<212> PRT

09529469.072800

<213> Homo sapiens

<400> 10563

```

Met Gly Leu Ile Phe Ala Lys Leu Trp Ser Leu Phe Cys Asn Gln Glu
 1           5           10           15
His Lys Val Ile Ile Val Gly Leu Asp Asn Ala Gly Lys Thr Thr Ile
          20           25           30
Leu Tyr Gln Phe Leu Met Asn Glu Val Val His Thr Ser Pro Thr Ile
          35           40           45
Gly Ser Asn Val Glu Glu Ile Val Val Lys Asn Thr His Phe Leu Met
          50           55           60
Trp Asp Ile Gly Gly Gln Glu Ser Leu Arg Ser Ser Trp Asn Thr Tyr
 65           70           75           80
Tyr Ser Asn Thr Glu Phe Ile Ile Leu Val Val Asp Ser Ile Asp Arg
          85           90           95
Glu Arg Leu Ala Ile Thr Lys Glu Glu Leu Tyr Arg Met Leu Ala His
          100          105          110
Glu Asp Leu Arg Lys Ala Ala Val Leu Ile Phe Ala Asn Lys Gln Asp
          115          120          125
Met Lys Gly Cys Met Thr Ala Ala Glu Ile Ser Lys Tyr Leu Thr Leu
          130          135          140
Ser Ser Ile Lys Asp His Pro Trp His Ile Gln Ser Cys Cys Ala Leu
          145          150          155          160
Thr Gly Glu Gly Leu Cys Gln Gly Leu Glu Trp Met Thr Ser Arg Ile
          165          170          175
Gly Val Arg

```

<210> 10564

<211> 1534

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (179).. (1324)

<400> 10564

```

tttcttgctg taccccggcg atggaggcgc cggcttcgga gtgcgcccgc cgccgcagca 60
gcagcgtccc tggaggaccc cgccgtcccc cggctcaccg ctgccccttc tgctgctgag 120
ctacccgagc ggccggcggc gcagcagcgg cagcggcaag caccatccta attatctcat 180
ggctaattgaa cgcattgaacc tcatgaacat ggccaagctg agtatcaagg gcttgattga 240
atcagctctg aacctgggga ggactcttga ctctgactat gcacctotcc agcaattctt 300
tgtggtgatg gagcactgtc tgaacatgg cttgaaagct aaaaaaactt ttctcggaca 360
aaataaatcc ttctgggggc ctctagaact ggtagaaaag cttgttccag aagccgcaga 420
gataacagca agtggttaaag atcttcagg acttaagaca ccagtaggta gaggaagagc 480
ctggcttcgt ttggcattaa tgcaaaagaa actttcagaa tatatgaaag ctttgatcaa 540

```

```

taagaaagaa cttctcagtg aattctacga acccaatgcc ctcatgatgg aagaagaagg 600
agccataatt gctgggtctgt tgggtgggtct gaatgtcatt gatgccaatt tctgtatgaa 660
aggagaagac ttggactctc aggttggagt tatagatttt tcaatgtatc tcaaggacgg 720
gaacagcagt aaaggtactg aaggagacgg tcagattact gcaattctgg accagaagaa 780
ctatgtagaa gaactgaaca gacatttgaa tgctactgta aacaaccttc aggcaaaagt 840
agatgcatta gaaaaatcca acactaaact gacagaggag cttgcagttg caaacaacag 900
gatcattacc ttacaagaag aaatggaacg agttaaagag gaaagttcct acatactgga 960
atccaatcgg aagggtccca agcaagatag aactgcagaa gggcaagcac taagtgaagc 1020
aagaaagcat ttaaaagaag agacacaatt acgattggat gttgagaaaag aactggagat 1080
gcagatcagc atgaggcagg agatggaatt ggctatgaag atgctggaga aggatgtctg 1140
tgagaagcag gatgccctgg tatctcttcg gcagcagttg gatgacctca gagctctcaa 1200
gcotgaactt gcctttaagc tgcagagttc agacttagga gtaaaacaga aaagtgaact 1260
aaacagtcgc ttggaagaga agactaatca gatggctgct accattaaac aactgaaca 1320
aaggtaaaag tcctgtttct ttaatgaaac actttggatt gtcagtgtg aagtgaaaag 1380
aatgtgctgt acattcggca aatagaatat acgtgaaatt cttccaaatt agcatcagac 1440
attctggtag aaaaaagcca gttgaatgtt atgtgtgttt tctaaggat gactgaaatg 1500
tttttaggaa atgtcaatca cttgactago cttt 1534

```

<210> 10565  
 <211> 382  
 <212> PRT  
 <213> Homo sapiens

<400> 10565

Met	Ala	Asn	Glu	Arg	Met	Asn	Leu	Met	Asn	Met	Ala	Lys	Leu	Ser	Ile
1				5				10						15	
Lys	Gly	Leu	Ile	Glu	Ser	Ala	Leu	Asn	Leu	Gly	Arg	Thr	Leu	Asp	Ser
			20					25					30		
Asp	Tyr	Ala	Pro	Leu	Gln	Gln	Phe	Phe	Val	Val	Met	Glu	His	Cys	Leu
		35					40				45				
Lys	His	Gly	Leu	Lys	Ala	Lys	Lys	Thr	Phe	Leu	Gly	Gln	Asn	Lys	Ser
	50					55					60				
Phe	Trp	Gly	Pro	Leu	Glu	Leu	Val	Glu	Lys	Leu	Val	Pro	Glu	Ala	Ala
	65				70					75					80
Glu	Ile	Thr	Ala	Ser	Val	Lys	Asp	Leu	Pro	Gly	Leu	Lys	Thr	Pro	Val
				85				90						95	
Gly	Arg	Gly	Arg	Ala	Trp	Leu	Arg	Leu	Ala	Leu	Met	Gln	Lys	Lys	Leu
			100					105					110		
Ser	Glu	Tyr	Met	Lys	Ala	Leu	Ile	Asn	Lys	Lys	Glu	Leu	Leu	Ser	Glu
	115					120					125				
Phe	Tyr	Glu	Pro	Asn	Ala	Leu	Met	Met	Glu	Glu	Glu	Gly	Ala	Ile	Ile
	130					135					140				
Ala	Gly	Leu	Leu	Val	Gly	Leu	Asn	Val	Ile	Asp	Ala	Asn	Phe	Cys	Met
	145				150					155					160
Lys	Gly	Glu	Asp	Leu	Asp	Ser	Gln	Val	Gly	Val	Ile	Asp	Phe	Ser	Met
			165					170						175	
Tyr	Leu	Lys	Asp	Gly	Asn	Ser	Ser	Lys	Gly	Thr	Glu	Gly	Asp	Gly	Gln

09629469.072800

	180		185		190
Ile Thr Ala	Ile Leu Asp Gln Lys	Asn Tyr Val Glu	Glu Leu Asn Arg		
195	200	205			
His Leu Asn	Ala Thr Val Asn Asn	Leu Gln Ala Lys	Val Asp Ala Leu		
210	215	220			
Glu Lys Ser	Asn Thr Lys Leu Thr	Glu Glu Leu Ala	Val Ala Asn Asn		
225	230	235	240		
Arg Ile Ile	Thr Leu Gln Glu Glu	Met Glu Arg Val	Lys Glu Glu Ser		
	245	250	255		
Ser Tyr Ile	Leu Glu Ser Asn Arg	Lys Gly Pro Lys	Gln Asp Arg Thr		
	260	265	270		
Ala Glu Gly	Gln Ala Leu Ser Glu	Ala Arg Lys His	Leu Lys Glu Glu		
	275	280	285		
Thr Gln Leu	Arg Leu Asp Val Glu	Lys Glu Leu Glu	Met Gln Ile Ser		
	290	295	300		
Met Arg Gln	Glu Met Glu Leu Ala	Met Lys Met Leu	Glu Lys Asp Val		
305	310	315	320		
Cys Glu Lys	Gln Asp Ala Leu Val	Ser Leu Arg Gln	Gln Leu Asp Asp		
	325	330	335		
Leu Arg Ala	Leu Lys His Glu Leu	Ala Phe Lys Leu	Gln Ser Ser Asp		
	340	345	350		
Leu Gly Val	Lys Gln Lys Ser Glu	Leu Asn Ser Arg	Leu Glu Glu Lys		
	355	360	365		
Thr Asn Gln	Met Ala Ala Thr Ile	Lys Gln Leu Glu	Gln Arg		
	370	375	380		

<210> 10566  
 <211> 1813  
 <212> DNA  
 <213> Homo sapiens

<400> 10566  
 tattatcatg gctacaaagt cttgtgtggt ctggggccaca tctgtgtgcca ggctcccttt 60  
 cattgtctat attccagtca agctggccctt caaaatttca gcacattggg tctttctgcc 120  
 acaggccctt gcacatacat gcttttccct ctgtacatgt gattttcttt catccccgct 180  
 ttccaaagct aactctgact catccttcag actgcatctt aatgattact tcttcttgga 240  
 agactcccct aattttcaca actagatgag ctctccctta tatgttgaaa acaagtattt 300  
 cttgtgtgaa cagaaatgtt taatgtctgc cttcccaact cagccacaag ctctgtgagg 360  
 atgggggactc agtctttgca tccctcagag cctagcatag tctcagttaa tacgtgatag 420  
 ctggagcgtg acatttcatt aggaacagtg aggctagtig agaaattata cctcaccagt 480  
 atataggaga gtaccattag gaattcttaa tgggatgaaa acctgaattc atgtctagac 540  
 cctgccacct gctggctgtg ctgtttttaa taaattgcag atcctctcag agcctgtttc 600  
 ctcatatata aaataatggg gatcctaaca gccccctcat atggttgtag cagggaattta 660  
 attaaataat atatggaaaa gcattttttt aactgtaaaa ccatacataa atatcctttg 720  
 tcaactttcc cagtgcata cacactgggt cattaaacat ctattggatg ggtggatggt 780  
 tggatagatg gacagacaga ttaacagtta gggggccagt atgagtgaca agaggagAAC 840  
 ttggcatatg gaaagcatga tggaagccag aaaaaggaga gacttcccag aagtaggagg 900

09629469.072300

```

aggcttggtg attcatccac agtgtcacat gcagtagagc aggcaggaga atgagggggg 960
aaaatcattt aacctgggtg gaaggaaatc actggtgacc tccagctgat tcctcctcag 1020
ccttttcatg ttatctgggc ttccaatgac atgccttaat tgtaacttaa tcactttact 1080
gattttctatc tttggggggg ggcggaatc aaattgattt gcacatatgg caaaattggt 1140
aagattactc cagctgctgc cagcagggtg tgacaagtaa agaactgaat gtcagagaat 1200
aagaaaatac actaaacatt tattttaata aggcctagaa accttagtta ttaataaat 1260
tgccatggat aattggtttc agtttctaga gttgtttcat ctttaactcc ctgtgttcca 1320
gaaggaaatc tgctggatgt gtagacaggg cttgttggtt tgagacctat ctgagctatc 1380
acacatttct ctgagcattt tcctgtctct ctgatcacac cccacttcct gccaccactc 1440
ccagcatcca cctgggatag gtcactctga catacacaca aacacacaca cacacacaca 1500
cacacacaca cacacacaca ctactatcc aagctgccag tcttcttatt ggctcctcct 1560
ccagcgagga ggcttaagcc tcacctccct gctggggcct gatcaagctg gtctgtttgt 1620
gtatgaatct tgggagttag tggcccaagc tggatctgag ccagcattt atcatctcag 1680
cgctgcctcc cacagaagaa ggaagacata atgaataaat gaaaccccat gactgtatca 1740
acattcatca acccattact ccaaacttgg ctgataaaat tgggtacctg gattaaaaaa 1800
aaaaaaaaag aag

```

<210> 10567  
 <211> 1674  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (82)..(1227)

```

<400> 10567
aaattgggag ggcttcttgc aggctgctgg gctggggcta agggctgctc agtttccctc 60
agcggggcac tgggaagcgc catggcactg cagggcatct cggctcatgga gctgtccggc 120
ctggccccgg gccggttctg tgctatggtc ctggctgact tcggggcgcg tgtggtacgc 180
gtggaccggc ccggctcccg ctacgacgtg agccgcttgg gccggggcaa gcgctcgcta 240
gtgctggacc tgaagcagcc gcggggagcc gccgtgctgc ggctctgtg caagcggctg 300
gatgtgctgc tggagccctt ccgccgcggt gtcattggaga aactccagct gggcccagag 360
attctgcagc gggaaaaatcc aaggcttatt tatgccaggc tgagtggatt tggccagtca 420
ggaagcttct gccggttagc tggccacgat atcaactatt tggctttgtc aggtgttctc 480
tcaaaaattg gcagaagtgg tgagaatccg tatgcccgc tgaatctcct ggctgacttt 540
gctggttggt gccttatgtg tgcactgggc attataatgg ctctttttga ccgcacacgc 600
actgacaagg gtcaggatcat tgatgcaaat atgggtggaag gaacagcata ttaagtctt 660
tttctgtgga aaactcagaa atcgagtctg tgggaagcac ctcgaggaca gaacatgttg 720
gatggtggag cacccttcta tacgacttac aggacagcag atggggaatt catggtgtt 780
ggagcaatag aaccccagtt ctacgagctg ctgatcaaag gacttggact aaagtctgat 840
gaacttccca atcagatgag catggatgat tggccagaaa tgaagaagaa gtttgcagat 900
gtatttgcaa agaagacgaa ggcagagtgg tgtcaaatct ttgacggcac agatgcctgt 960
gtgactccgg ttctgacttt tgaggagggt gttcatcatg atcacaaca ggaacggggc 1020
tcgtttatca ccagtgagga gcaggacgtg agccccgcgc ctgcacctct gctgttaaac 1080
accccagcca tcccttcttt caaaagggat ctttcatag gagaacacac tgaggagata 1140
cttgaagaat ttggattcag ccgcgaagag atttgtcagc ttaactcaga taaaatcatt 1200

```



gaaagtaata aggtaaaagc tagtctctaa cttccaggcc cacggctcaa gtgaatttga 1260  
atactgcatt tacagtgtag agtaacacat aacattgtat gcatggaaac atggaggaac 1320  
agtattacag tgtcctacca ctctaataca gaaaagaatt acagactctg attctacagt 1380  
gatgattgaa ttctaaaaat ggttatcatt agggcttttg atttataaaa ctttgggtac 1440  
ttataactaaa ttatggtagt tattctgcct tccagtttgc ttgatataatt tgttgatatt 1500  
aagattcttg acttatattt tgaatgggtt ctagtgaaaa aggaatgata tattcttgaa 1560  
gacatcgata tacatttatt tacactcttg attctacaat gtagaaaatg aggaaatgcc 1620  
acaaattgta tgggtgataaa agtcacgtga aacagagtga ttggttgcac ccag 1674

<210> 10568

<211> 382

<212> PRT

<213> Homo sapiens

<400> 10568

Met	Ala	Leu	Gln	Gly	Ile	Ser	Val	Met	Glu	Leu	Ser	Gly	Leu	Ala	Pro	1	5	10	15
Gly	Pro	Phe	Cys	Ala	Met	Val	Leu	Ala	Asp	Phe	Gly	Ala	Arg	Val	Val	20	25	30	
Arg	Val	Asp	Arg	Pro	Gly	Ser	Arg	Tyr	Asp	Val	Ser	Arg	Leu	Gly	Arg	35	40	45	
Gly	Lys	Arg	Ser	Leu	Val	Leu	Asp	Leu	Lys	Gln	Pro	Arg	Gly	Ala	Ala	50	55	60	
Val	Leu	Arg	Arg	Leu	Cys	Lys	Arg	Ser	Asp	Val	Leu	Leu	Glu	Pro	Phe	65	70	75	80
Arg	Arg	Gly	Val	Met	Glu	Lys	Leu	Gln	Leu	Gly	Pro	Glu	Ile	Leu	Gln	85	90	95	
Arg	Glu	Asn	Pro	Arg	Leu	Ile	Tyr	Ala	Arg	Leu	Ser	Gly	Phe	Gly	Gln	100	105	110	
Ser	Gly	Ser	Phe	Cys	Arg	Leu	Ala	Gly	His	Asp	Ile	Asn	Tyr	Leu	Ala	115	120	125	
Leu	Ser	Gly	Val	Leu	Ser	Lys	Ile	Gly	Arg	Ser	Gly	Glu	Asn	Pro	Tyr	130	135	140	
Ala	Pro	Leu	Asn	Leu	Leu	Ala	Asp	Phe	Ala	Gly	Gly	Gly	Leu	Met	Cys	145	150	155	160
Ala	Leu	Gly	Ile	Ile	Met	Ala	Leu	Phe	Asp	Arg	Thr	Arg	Thr	Asp	Lys	165	170	175	
Gly	Gln	Val	Ile	Asp	Ala	Asn	Met	Val	Glu	Gly	Thr	Ala	Tyr	Leu	Ser	180	185	190	
Ser	Phe	Leu	Trp	Lys	Thr	Gln	Lys	Ser	Ser	Leu	Trp	Glu	Ala	Pro	Arg	195	200	205	
Gly	Gln	Asn	Met	Leu	Asp	Gly	Gly	Ala	Pro	Phe	Tyr	Thr	Thr	Tyr	Arg	210	215	220	
Thr	Ala	Asp	Gly	Glu	Phe	Met	Ala	Val	Gly	Ala	Ile	Glu	Pro	Gln	Phe	225	230	235	240
Tyr	Glu	Leu	Leu	Ile	Lys	Gly	Leu	Gly	Leu	Lys	Ser	Asp	Glu	Leu	Pro	245	250	255	

09629469.072800

Asn	Gln	Met	Ser	Met	Asp	Asp	Trp	Pro	Glu	Met	Lys	Lys	Lys	Phe	Ala
		260						265					270		
Asp	Val	Phe	Ala	Lys	Lys	Thr	Lys	Ala	Glu	Trp	Cys	Gln	Ile	Phe	Asp
		275					280					285			
Gly	Thr	Asp	Ala	Cys	Val	Thr	Pro	Val	Leu	Thr	Phe	Glu	Glu	Val	Val
	290					295					300				
His	His	Asp	His	Asn	Lys	Glu	Arg	Gly	Ser	Phe	Ile	Thr	Ser	Glu	Glu
305				310						315					320
Gln	Asp	Val	Ser	Pro	Arg	Pro	Ala	Pro	Leu	Leu	Leu	Asn	Thr	Pro	Ala
			325					330						335	
Ile	Pro	Ser	Phe	Lys	Arg	Asp	Pro	Phe	Ile	Gly	Glu	His	Thr	Glu	Glu
		340					345						350		
Ile	Leu	Glu	Glu	Phe	Gly	Phe	Ser	Arg	Glu	Glu	Ile	Cys	Gln	Leu	Asn
	355					360						365			
Ser	Asp	Lys	Ile	Ile	Glu	Ser	Asn	Lys	Val	Lys	Ala	Ser	Leu		
	370					375					380				

<210> 10569  
 <211> 1578  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (24).. (1577)

<400> 10569

ggtagt	gacc	ctcggg	cctc	gccatga	aga	gccgctt	tag	caccatt	gac	ctccgcg	cgcg	60
tactcg	cgga	gctgaat	gct	agcttg	ctag	gaatgag	agt	aaacaat	ggt	tatgat	gttg	120
ataata	agac	atacctt	tatt	cgtctt	caaa	aaccgg	actt	taaagct	taca	ctttt	acttg	180
aatctg	gcat	acgaatt	cat	acaacag	aat	ttgagt	ggcc	taagaat	atg	atgcc	gtcta	240
gttttg	ccat	gaagtgc	cgga	aaacatt	tga	agagtc	ggag	attagtc	agt	gcaaa	acagc	300
ttgggt	tgga	tagaatt	gta	gatttt	caat	ttgga	agtga	tgaagct	gct	taccatt	ttaa	360
tcattg	agct	ctatgat	tagg	gggaac	attg	ttctta	caga	ttatgag	tac	gtaatt	tttaa	420
atattc	taag	gtttcga	act	gatgagg	cag	atgatgt	ttaa	atttgct	gtt	cgtga	acgct	480
atccact	tga	tcattg	ctaga	gctgct	gaac	ctttg	cttac	tttgga	aagg	ttgact	gaaa	540
tagtag	ccag	cgcac	ctaag	ggtga	actac	tgaag	aggg	gotta	accca	ttactt	ccct	600
atggacc	agc	tctcatt	gaa	cactgt	cttt	tagaaa	atgg	atttct	cggt	aatgt	caaag	660
tggatg	aaaa	acttgaa	act	aaagata	tgt	aaaa	agtact	tgttt	ctctg	cagaa	agcag	720
aagact	tatat	gaaaaca	aca	tccaact	tca	gtggga	aagg	atatat	catt	cagaaa	agag	780
aaataaa	acc	atgctt	ggaa	gcagata	aaac	cagttg	aaga	catact	gacg	tatgag	gaat	840
ttcatc	cttt	cttg	tttt	ct	caacatt	cac	aatgt	ccata	tataga	attt	gaatc	900
acaagg	cgg	tgatga	attt	tattcca	aga	tagaag	gcca	gaaaat	tgac	ttaa	aagctt	960
tacaac	agga	aaagca	agca	ttgaaga	aat	tagata	atgt	tcgaa	aggat	cacgaa	aaca	1020
gattgga	agc	tcttcag	cag	gctcagg	aaa	tagacaa	act	gaaagg	agag	ctcatag	aaa	1080
tgaacct	taca	aatag	ttgac	agagcc	attc	aggtagt	ttcg	aagtgc	ttta	gctaacc	caga	1140
tagatt	ggac	agaaatt	ggg	ttaatt	gtga	aagaag	ccca	ggctca	agga	gacctg	ttg	1200

09629469.072800

caagtgcaat caaagaatta aaactacaaa caaaccatgt tacaatgctg ctaagaaatc 1260  
catacttggt atcagaggag gaagatgatg atgttgatgg tgacgtcaat gttgagaaaa 1320  
atgaaactga accacaaaaa ggaaaaaaga aaaaacaaaa gaataaacag ctgcagaagc 1380  
ctcagaaaaa taagccctta ctgttagatg ttgatctcag cttgtcagca tatgccaatg 1440  
ccaaaaagta ttatgatcac aagagatatg ctgctaagaa aacacaaaag actgttgaag 1500  
ctgctgagaa ggcattcaag tcagcagaaa agaaaacaaa gcaaacatta aaagaagttc 1560  
agactgttac ctctattc 1578

<210> 10570

<211> 518

<212> PRT

<213> Homo sapiens

<400> 10570

Met	Lys	Ser	Arg	Phe	Ser	Thr	Ile	Asp	Leu	Arg	Ala	Val	Leu	Ala	Glu
1				5					10					15	
Leu	Asn	Ala	Ser	Leu	Leu	Gly	Met	Arg	Val	Asn	Asn	Val	Tyr	Asp	Val
			20					25					30		
Asp	Asn	Lys	Thr	Tyr	Leu	Ile	Arg	Leu	Gln	Lys	Pro	Asp	Phe	Lys	Ala
		35					40					45			
Thr	Leu	Leu	Leu	Glu	Ser	Gly	Ile	Arg	Ile	His	Thr	Thr	Glu	Phe	Glu
	50					55					60				
Trp	Pro	Lys	Asn	Met	Met	Pro	Ser	Ser	Phe	Ala	Met	Lys	Cys	Arg	Lys
65				70					75						80
His	Leu	Lys	Ser	Arg	Arg	Leu	Val	Ser	Ala	Lys	Gln	Leu	Gly	Val	Asp
				85					90					95	
Arg	Ile	Val	Asp	Phe	Gln	Phe	Gly	Ser	Asp	Glu	Ala	Ala	Tyr	His	Leu
			100					105					110		
Ile	Ile	Glu	Leu	Tyr	Asp	Arg	Gly	Asn	Ile	Val	Leu	Thr	Asp	Tyr	Glu
	115						120					125			
Tyr	Val	Ile	Leu	Asn	Ile	Leu	Arg	Phe	Arg	Thr	Asp	Glu	Ala	Asp	Asp
	130					135					140				
Val	Lys	Phe	Ala	Val	Arg	Glu	Arg	Tyr	Pro	Leu	Asp	His	Ala	Arg	Ala
145				150					155					160	
Ala	Glu	Pro	Leu	Leu	Thr	Leu	Glu	Arg	Leu	Thr	Glu	Ile	Val	Ala	Ser
			165					170					175		
Ala	Pro	Lys	Gly	Glu	Leu	Leu	Lys	Arg	Val	Leu	Asn	Pro	Leu	Leu	Pro
		180					185				190				
Tyr	Gly	Pro	Ala	Leu	Ile	Glu	His	Cys	Leu	Leu	Glu	Asn	Gly	Phe	Ser
	195					200					205				
Gly	Asn	Val	Lys	Val	Asp	Glu	Lys	Leu	Glu	Thr	Lys	Asp	Ile	Glu	Lys
	210				215					220					
Val	Leu	Val	Ser	Leu	Gln	Lys	Ala	Glu	Asp	Tyr	Met	Lys	Thr	Thr	Ser
225				230					235					240	
Asn	Phe	Ser	Gly	Lys	Gly	Tyr	Ile	Ile	Gln	Lys	Arg	Glu	Ile	Lys	Pro
			245				250						255		
Cys	Leu	Glu	Ala	Asp	Lys	Pro	Val	Glu	Asp	Ile	Leu	Thr	Tyr	Glu	Glu

09629469.072800



```

tgtgcttcgg ccctgcacag ctcacgggcg ggttcgatga ccttcaagtg tgtgctgacc 240
ccggcattcc cgagaatggc ttcaggaccc ccagcggagg ggttttcttt gaaggctctg 300
tagcccgatt tcaactgcaa gacggattca agctgaaggc cgtacaaaag agactgtgtt 360
tgaagcattt taatggaacc ctaggctgga tccaagtga taattccatc tgtgtgcaag 420
aagattgccg tatccctcaa atcgaagatg ctgagattca taacaagaca tatagacatg 480
gagagaagct aatcatcact tgtcatgaag gattcaagat ccggtacccc gacctacaca 540
atatggtttc attatgtcgc gatgatggaa cgtggaataa tctgcccatac tgtcaaggct 600
gcctgagacc tctagccccc cagcataccc cggctcaggc gacacggaca caggcccagg 660
ggagtcagaa acctgtgaca gcgtctcagg ctcttctgag ctgctccaaa gtctgtattc 720
acctcccagg tgccaagaga gcacccaccc tgcttcggac aacctgaca taattgccag 780
cacggcagag gaggtggcat ccaccagccc aggcacgcac attgcagatg agattcctct 840
aatggaagaa gatcccta atgggtcaag atccagatga ctctcctgct ccttcgggga 900
aaggaccttg tatcttgag tgaggtcaca gaaggataga gcctgggggc aaaatgtcta 960
acttgtctac atggggacca cagttcacat tatgcattc aggcctccaca gtgaggctga 1020
caaactgcaa tggcagtgct tttaaatgag atttgaggat tcaccaagac ccattgggga 1080
ccggggcagc aggggaagccc tcgcgtggtc ttggatgagg ggtgttaaat gtgtatcgtg 1140
ctgtggaaca tgggacaatt ccacgcacat cccaccgaat catcacgcac cccattgact 1200
ggcaagtact ccccgccccc tctgaaagca tgtcacatca tgtaaatttg cttctaact 1260
ctgcttcaaa ctgtctctgg actccaaatt tggatgggtc agcctctgca gaaagtttgt 1320
gttgagatgc tggaagaaca gcagagcctc ctgcaccctc agcaaggagc cagctcccaa 1380
aggaaaggtc cttgtgtgac atttgagaga tcttcttca tccagacaac tctactcgaa 1440
gcaagacgaa agcaggatgt ggcagttgca gtgagaaagg aaaggaaagg tgggcagact 1500
ctgctttctg gaaatttctt cacaagtag agctcatgaa ctctgtgctg tcttctggt 1560
acatatcatc agtgtttgta ttcattggtg ggcacatgga tccatggcat tgggtaaata 1620
tggtggtttt tacacatggt cagaatgtgt tcaaatacat ctcatgatg agacagtaac 1680
caaggtaatg ttttgtttca gcattttaaa aagactccac ttaacattta totcagaata 1740
atgagcctct ctctagtgtg caattgtcat tgttccccca gcccacaaat gaaccataca 1800
tttattttcc aaacagaaa ttgtttctgt aaacatatcc gaccttcaaa agaagtgtga 1860
ggttggattt ttccccctt tttttgtcct aagattccag gaggtggcc tccagccca 1920
gatagctcag ccacctcacc tgcctatcat tctgcattc ctactttgag ggtctcatca 1980
tgcccactgg gtgtgttcc taagaaactg attgattaaa aaatttccca aagtg 2035

```

<210> 10572

<211> 236

<212> PRT

<213> Homo sapiens

<400> 10572

```

Met Tyr His Gly Met Asn Pro Ser Asn Gly Asp Gly Phe Leu Glu Gln
 1             5             10             15
Gln Gln Gln Gln Gln Gln Pro Gln Ser Pro Gln Arg Leu Leu Ala Val
          20             25             30
Ile Leu Trp Phe Gln Leu Ala Leu Cys Phe Gly Pro Ala Gln Leu Thr
          35             40             45
Gly Gly Phe Asp Asp Leu Gln Val Cys Ala Asp Pro Gly Ile Pro Glu
          50             55             60
Asn Gly Phe Arg Thr Pro Ser Gly Gly Val Phe Phe Glu Gly Ser Val

```

65		70		75		80
Ala Arg Phe His Cys Gln Asp Gly Phe Lys Leu Lys Gly Ala Thr Lys						
	85		90		95	
Arg Leu Cys Leu Lys His Phe Asn Gly Thr Leu Gly Trp Ile Pro Ser						
	100		105		110	
Asp Asn Ser Ile Cys Val Gln Glu Asp Cys Arg Ile Pro Gln Ile Glu						
	115		120		125	
Asp Ala Glu Ile His Asn Lys Thr Tyr Arg His Gly Glu Lys Leu Ile						
	130		135		140	
Ile Thr Cys His Glu Gly Phe Lys Ile Arg Tyr Pro Asp Leu His Asn						
	145		150		155	
Met Val Ser Leu Cys Arg Asp Asp Gly Thr Trp Asn Asn Leu Pro Ile						
	165		170		175	
Cys Gln Gly Cys Leu Arg Pro Leu Ala Pro Gln His Thr Pro Ala Gln						
	180		185		190	
Gly Thr Arg Thr Gln Ala Gln Gly Ser Gln Lys Pro Val Thr Ala Ser						
	195		200		205	
Gln Ala Leu Leu Ser Cys Ser Lys Val Cys Ile His Leu Pro Gly Ala						
	210		215		220	
Lys Arg Ala Pro Thr Leu Leu Arg Thr Thr Leu Thr						
	225		230		235	

<210> 10573  
 <211> 2115  
 <212> DNA  
 <213> Homo sapiens

<400> 10573  
 gaccagatga ttttagcata cgctggtagg aaaatgaaat tttaaagtgat tttcttacat 60  
 ttttatcagt gtaggttttg gtcattaaaa attttcactc cagttctttt tatgtttatt 120  
 ttgacttctg atttatctag gaactagaac ctctggttgg tgaacagttg ctccagttat 180  
 gggaacgtct tcccttgga gaaaaaaca caactgattg acactcaggt tataccatct 240  
 tgactttgag tattggcagt atttgtgac attaggaacc tttcagatta tttatctttt 300  
 tttttccct tttctctaga actcttagct gtggaagaac atcatgccta tttataacca 360  
 ctgaatgcac tgactttcaa aaactgaggt ggggtgtgtg ttacgaatgg gctttttaac 420  
 acttttagag tggtgcttta gaactaccat ctcatatac aggagaaagg aagcatttaa 480  
 atttttatag tgattataga gaatgattat atgatgtttg taatgaataa aatagtagtt 540  
 tcattatttg gcacaatagc agtttatttt aaacaaacaa tttgaagtta aacatttcat 600  
 ttttaaaaac actgaattac agttcttatt gatgactttt taatgcagag taagttgttt 660  
 aagaaaggcc tgaatatatc agaacatctg agcaccattt tagaagagtc aactcttaag 720  
 attatcatta gaaaaacaa acgtcaacac ctatgaaaag aagcggggaa aacaacaaca 780  
 aggacaacaa caaaaaacca gtgaaattct acaagtgtcc cttttaaaaa tagtgtgtgc 840  
 taactaaggg ctattcattc tgccattttt aacttgagac acatttaaga ataaagttgg 900  
 atgttctttt tctgtgatta tgaaatgcaa taaaatctga ataaagggca aagtttcttc 960  
 ctgatcagat tagattaagt gcttagtttt attcctaatt ctgccccttt taacctgatg 1020  
 tgtaccttac ttttctctcc ctctcttcc ccttctctcc tctcccact ctttctctgc 1080  
 atttctccct cctctcttcc ctctctacat ctcttatatg agcacagtaa ttatgacctt 1140

09629459.072800

tttgttttgg	ctacaacttg	attgaaacaa	gttcaaaatt	taaacaagtt	catacaagtt	1200
tttaaaaatt	ctcaactggg	agcttgcttg	ctgtgcgtct	tccaaactaa	agcctgcaag	1260
cgccacaatt	ctaagtgccg	ccttccattt	tttttcagta	tgttttcact	ggcttatgtt	1320
ttcagatatg	attttccttt	ttcgcatata	tggtttaata	aatgggggat	aatttttttt	1380
tttgtaaatc	cgtgcttgtg	ccaagtctca	tatttccttg	ccatctcaga	attatctttt	1440
taccaccact	gtttataaaa	tttccttaga	gactttttga	agggaaaata	gagcaacagg	1500
gaaaaatgaa	agaaatgtct	tggttactga	gctctaaata	gacaggtttg	atggcacttc	1560
tcatgataca	ttttagttat	tcttataaaa	gcaaacaggc	aaacatgagt	gtaaattaaa	1620
gacaaaaaga	aaactctggt	tttatatttg	agaacacgtg	aaaaatcatg	ggtcaacata	1680
aaatcttgag	aaccttctac	tttctctggg	aaagcattat	atagtgggtg	attagtttag	1740
aaagtcagct	atgattttgc	ctatagttct	agttattagc	tttgggggtt	tcttgtactt	1800
taagacatac	ctgtaaattg	aacctatttg	aattatattc	cactgtatgt	gtattatggc	1860
tcttttccta	ttagagcaac	ttgtgtttcc	ctgataatgt	gtacattttt	taggcatgta	1920
cttaatatgt	cacaatgttc	taaaatttga	aggacttaaa	aaaaaaactt	gtttaaattt	1980
ccatctgttt	tgtaatatct	agctctatat	gtaaatgatg	ggtttggttg	tattttaaatt	2040
gaatacaact	tgaatgtaat	taaagtgtctg	ttttttggaa	gogataaact	ttaattatta	2100
aatgaaatt	ctatt					2115

<210> 10574  
 <211> 1459  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (11).. (1252)

<400> 10574						
agaaaagagg	atgttctttc	ttgaaaataa	gcgacgacat	tgtaggtcct	atgaccgacg	60
tgctcttctt	ccagctgtgc	aacaagagca	ggagttctat	gagcagaaaa	tcaaagagat	120
ggcagagcat	gaagactttt	tgcttgccct	acagatgaat	gaagaacagt	atcaaaagga	180
tgccagctg	attgagtgtc	gctgctgcta	tggggaattt	ccattcgagg	agctgacgca	240
gtgcgcagat	gctcacttgt	tctgcaaaga	gtgtctcatc	agatatgccc	aagaggcagt	300
ctttggatct	ggaaagttag	agctcagctg	catggaaggc	agctgcacgt	gttcgttccc	360
aaccagtgag	ctggagaagg	tgctccccc	gaccatcctg	tataagtact	atgagcgaaa	420
agccgaggag	gaggttgccg	cagcctacgc	cgacgagctt	gtcaggtgcc	cgctcctgtg	480
ctttccggct	ctgttggaac	gtgatgtgaa	gaggttcagc	tgctcctaac	ctcactgccg	540
aaaggaaaacc	tgtaggaagt	gtcagggact	ctggaaagaa	cataatggcc	tcacctgtga	600
agagctggct	gaaaaagacg	acatcaagta	ccgtacctct	attgaagaaa	aaatgactgc	660
tgcccgcat	agaaaatgcc	acaagtgtgg	gactggcctc	atcaaactctg	aaggctgcaa	720
ccgcatgtct	tgccgctgtg	gtgccagat	gtgctacctc	tgctgagttt	ctattaatgg	780
atatgaccat	ttctgccaac	atccccgctc	accaggagcc	ccttgccagg	agtgttcaag	840
atgctctctc	tggaccgatc	ccactgaaga	tgatgagaag	cttattgagg	aaatccagaa	900
ggaggctgaa	gaggaacaga	aaagaaagaa	tggagagaac	accttcaaac	gcattggacc	960
cccgtggag	aagcctgtgg	agaaggtgca	gagggtggag	gccctcccga	ggcccgttcc	1020
gcagaacctg	ccacagccac	agatgccacc	ctatgccttc	gcgcacccac	ccttccccct	1080
gcctcccgtg	cggcctgtgt	tcaacaactt	cccactcaac	atggggccta	tcccagcccc	1140

gtacgtgccc cctctgcccc acgtgctgggt caactatgac ttctgggtccca tccacatgcc 1200  
cctgggagcac aacctgcccc tgcacttttg cccccagccg cggcatcgct tctgatggcc 1260  
ccgaatcccc attgagcagc acaaagcccg ttctgggtag gagtgtggat ggagaaccct 1320  
cccccaaggc tgggtgtctgt accattgcat cctaagtcag cttgaagggt aggctggttt 1380  
tcttcccacc cctttcctag aagggtact gctcctggaa gagtggacgg atccataata 1440  
aagaagtcac aaatggtgg 1459

<210> 10575

<211> 414

<212> PRT

<213> Homo sapiens

<400> 10575

Met	Phe	Leu	Glu	Asn	Lys	Arg	Arg	His	Cys	Arg	Ser	Tyr	Asp	Arg	1	5	10	15
Arg	Ala	Leu	Leu	Pro	Ala	Val	Gln	Gln	Glu	Gln	Glu	Phe	Tyr	Gln	20	25	30	
Lys	Ile	Lys	Glu	Met	Ala	Glu	His	Glu	Asp	Phe	Leu	Leu	Ala	Gln	35	40	45	
Met	Asn	Glu	Glu	Gln	Tyr	Gln	Lys	Asp	Gly	Gln	Leu	Ile	Glu	Cys	Arg	50	55	60
Cys	Cys	Tyr	Gly	Glu	Phe	Pro	Phe	Glu	Glu	Leu	Thr	Gln	Cys	Ala	Asp	65	70	75
Ala	His	Leu	Phe	Cys	Lys	Glu	Cys	Leu	Ile	Arg	Tyr	Ala	Gln	Glu	Ala	85	90	95
Val	Phe	Gly	Ser	Gly	Lys	Leu	Glu	Leu	Ser	Cys	Met	Glu	Gly	Ser	Cys	100	105	110
Thr	Cys	Ser	Phe	Pro	Thr	Ser	Glu	Leu	Glu	Lys	Val	Leu	Pro	Gln	Thr	115	120	125
Ile	Leu	Tyr	Lys	Tyr	Tyr	Glu	Arg	Lys	Ala	Glu	Glu	Glu	Val	Ala	Ala	130	135	140
Ala	Tyr	Ala	Asp	Glu	Leu	Val	Arg	Cys	Pro	Ser	Cys	Ser	Phe	Pro	Ala	145	150	155
Leu	Leu	Asp	Ser	Asp	Val	Lys	Arg	Phe	Ser	Cys	Pro	Asn	Pro	His	Cys	165	170	175
Arg	Lys	Glu	Thr	Cys	Arg	Lys	Cys	Gln	Gly	Leu	Trp	Lys	Glu	His	Asn	180	185	190
Gly	Leu	Thr	Cys	Glu	Glu	Leu	Ala	Glu	Lys	Asp	Asp	Ile	Lys	Tyr	Arg	195	200	205
Thr	Ser	Ile	Glu	Glu	Lys	Met	Thr	Ala	Ala	Arg	Ile	Arg	Lys	Cys	His	210	215	220
Lys	Cys	Gly	Thr	Gly	Leu	Ile	Lys	Ser	Glu	Gly	Cys	Asn	Arg	Met	Ser	225	230	235
Cys	Arg	Cys	Gly	Ala	Gln	Met	Cys	Tyr	Leu	Cys	Arg	Val	Ser	Ile	Asn	245	250	255
Gly	Tyr	Asp	His	Phe	Cys	Gln	His	Pro	Arg	Ser	Pro	Gly	Ala	Pro	Cys	260	265	270

09629469.072800



Gln	Glu	Cys	Ser	Arg	Cys	Ser	Leu	Trp	Thr	Asp	Pro	Thr	Glu	Asp	Asp
		275					280					285			
Glu	Lys	Leu	Ile	Glu	Glu	Ile	Gln	Lys	Glu	Ala	Glu	Glu	Glu	Gln	Lys
		290				295					300				
Arg	Lys	Asn	Gly	Glu	Asn	Thr	Phe	Lys	Arg	Ile	Gly	Pro	Pro	Leu	Glu
305					310					315					320
Lys	Pro	Val	Glu	Lys	Val	Gln	Arg	Val	Glu	Ala	Leu	Pro	Arg	Pro	Val
			325						330					335	
Pro	Gln	Asn	Leu	Pro	Gln	Pro	Gln	Met	Pro	Pro	Tyr	Ala	Phe	Ala	His
		340						345					350		
Pro	Pro	Phe	Pro	Leu	Pro	Pro	Val	Arg	Pro	Val	Phe	Asn	Asn	Phe	Pro
		355					360					365			
Leu	Asn	Met	Gly	Pro	Ile	Pro	Ala	Pro	Tyr	Val	Pro	Pro	Leu	Pro	Asn
	370				375						380				
Val	Arg	Val	Asn	Tyr	Asp	Phe	Gly	Pro	Ile	His	Met	Pro	Leu	Glu	His
385					390					395					400
Asn	Leu	Pro	Met	His	Phe	Gly	Pro	Gln	Pro	Arg	His	Arg	Phe		
			405						410						

<210> 10576  
 <211> 1853  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (37).. (1359)

<400> 10576

gcgggcgggc	tgctgaggtg	gctgtcgccg	gccccgatgg	acgctcccc	gggcggggtt	60
gagtcggcgc	tcagctgctt	ctctttcaac	caggactgca	catccctagc	aactggaact	120
aaagccgggt	ataagctgtt	ttctctgagt	tctgtggagc	agctggatca	agtccacgga	180
agcaatgaaa	tcccggacgt	ctacatcgtg	gagcgctct	tctccagcag	cctgggtggtg	240
gtagtcagtc	acacaaaacc	acggcagatg	aacgtgtatc	acttcaagaa	aggcacagag	300
atctgtaat	acagctactc	cagcaacatc	ttgtccataa	ggctgaaccg	gcaaaggctg	360
ctggtttgcc	tagaagagtc	catttatatt	cacaacatta	aagacatgaa	gctgttgaag	420
accctcctgg	atattcctgc	aaacccaaca	ggtctatgtg	ctctctctat	caaccattcc	480
aattcttacc	tggcctatcc	tgggaagcctg	acttcagggg	agattgtgct	ttatgatgga	540
aactccctga	aaacagtctg	cactattgct	gcccattgagg	gaacactagc	tgccatcacc	600
ttcaatgcct	caggctccaa	actagcaagt	gcgtctgaaa	aaggcacagt	catccgggtg	660
ttctctgtcc	ctgatgggca	aaagctctat	gagttccgga	gagggatgaa	aaggatatgtg	720
acaatcagct	ctctagtgtt	cagtatggat	tcacaattcc	tctgcgcctc	cagtaacacc	780
gagacggtac	acatcttcaa	gctggaacag	gtcaccaaca	gtcgaccaga	agagccttcg	840
acctggagtg	gctacatggg	aaagatgttt	atggctgcta	ccaactacct	ccctaccag	900
gtgtcagaca	tgatgcatca	ggacagggct	tttgccactg	cacgottgaa	cttctccgga	960
cagaggaaca	tctgtacctt	ctcaacgata	cagaagttgc	cacggctgct	agttgcgtca	1020
tccagtggac	acctttatat	gtacaatttg	gatactcagg	atggaggaga	gtgtgtctta	1080

09629469.072800

```

atcaaaaccc accgcttgct tggctcagga acaacagaag agaataaaga aaatgacctc 1140
agaccttcct tacctcagtc ttatgcagcg accgtagcca gaccaagtgc atcttcagcc 1200
tccacggtgc caggttattc tgaggacggc ggggcgctgc gaggagaagt tattcctgaa 1260
catgagtttg cgacgggacc agtgtgtctt gatgatgaga atgagtttcc tcctataatc 1320
ttgtgccgtg gaaatcagaa gggcaaaacg aagcagtcac gatgagaagc acacctcaga 1380
aatcaggaca tccccctat caggttggtt tggagaaaac aaggaaggcg gaagaatgga 1440
gtgcaattgt gtgagcagaa aggggggcag gaatcccggg tgctccactg cttaaaccac 1500
aggacctggt taactcctca ccaagcttcc caccgacctg gttgccaatg ggcgcgggag 1560
acattgtata cacatcatgc tatttaaaat acgttcaaac tatagtgtaa atgctaatta 1620
accatattgg tatataaccg gaattttata ttaaaagggg cctccttttt aaatatatgc 1680
cgtgtaaaaa atgtacttat aggaacatct ctttgaattg tatttcttgt atattacata 1740
cttagagaga gactctttta gccaggcaaa gtcttttttg gctgtggctg gaataaatca 1800
tttattactt gggagtccca ttttggacac taataataaa atcatggcaa tgc 1853

```

<210> 10577

<211> 441

<212> PRT

<213> Homo sapiens

<400> 10577

```

Met Asp Ala Pro Pro Gly Gly Val Glu Ser Ala Leu Ser Cys Phe Ser
 1           5           10           15
Phe Asn Gln Asp Cys Thr Ser Leu Ala Thr Gly Thr Lys Ala Gly Tyr
           20           25           30
Lys Leu Phe Ser Leu Ser Ser Val Glu Gln Leu Asp Gln Val His Gly
           35           40           45
Ser Asn Glu Ile Pro Asp Val Tyr Ile Val Glu Arg Leu Phe Ser Ser
           50           55           60
Ser Leu Val Val Val Val Ser His Thr Lys Pro Arg Gln Met Asn Val
           65           70           75           80
Tyr His Phe Lys Lys Gly Thr Glu Ile Cys Asn Tyr Ser Tyr Ser Ser
           85           90           95
Asn Ile Leu Ser Ile Arg Leu Asn Arg Gln Arg Leu Leu Val Cys Leu
           100          105          110
Glu Glu Ser Ile Tyr Ile His Asn Ile Lys Asp Met Lys Leu Leu Lys
           115          120          125
Thr Leu Leu Asp Ile Pro Ala Asn Pro Thr Gly Leu Cys Ala Leu Ser
           130          135          140
Ile Asn His Ser Asn Ser Tyr Leu Ala Tyr Pro Gly Ser Leu Thr Ser
           145          150          155          160
Gly Glu Ile Val Leu Tyr Asp Gly Asn Ser Leu Lys Thr Val Cys Thr
           165          170          175
Ile Ala Ala His Glu Gly Thr Leu Ala Ala Ile Thr Phe Asn Ala Ser
           180          185          190
Gly Ser Lys Leu Ala Ser Ala Ser Glu Lys Gly Thr Val Ile Arg Val
           195          200          205
Phe Ser Val Pro Asp Gly Gln Lys Leu Tyr Glu Phe Arg Arg Gly Met

```

000220-6946960

210	215	220
Lys Arg Tyr Val Thr Ile Ser Ser Leu Val Phe Ser Met Asp Ser Gln		
225	230	235
Phe Leu Cys Ala Ser Ser Asn Thr Glu Thr Val His Ile Phe Lys Leu		
	245	250
Glu Gln Val Thr Asn Ser Arg Pro Glu Glu Pro Ser Thr Trp Ser Gly		
	260	265
Tyr Met Gly Lys Met Phe Met Ala Ala Thr Asn Tyr Leu Pro Thr Gln		
	275	280
Val Ser Asp Met Met His Gln Asp Arg Ala Phe Ala Thr Ala Arg Leu		
	290	295
Asn Phe Ser Gly Gln Arg Asn Ile Cys Thr Leu Ser Thr Ile Gln Lys		
305	310	315
Leu Pro Arg Leu Leu Val Ala Ser Ser Ser Gly His Leu Tyr Met Tyr		
	325	330
Asn Leu Asp Pro Gln Asp Gly Gly Glu Cys Val Leu Ile Lys Thr His		
	340	345
Arg Leu Leu Gly Ser Gly Thr Thr Glu Glu Asn Lys Glu Asn Asp Leu		
	355	360
Arg Pro Ser Leu Pro Gln Ser Tyr Ala Ala Thr Val Ala Arg Pro Ser		
	370	375
Ala Ser Ser Ala Ser Thr Val Pro Gly Tyr Ser Glu Asp Gly Gly Ala		
385	390	395
Leu Arg Gly Glu Val Ile Pro Glu His Glu Phe Ala Thr Gly Pro Val		
	405	410
Cys Leu Asp Asp Glu Asn Glu Phe Pro Pro Ile Ile Leu Cys Arg Gly		
	420	425
Asn Gln Lys Gly Lys Thr Lys Gln Ser		
	435	440

<210> 10578  
 <211> 1579  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (452).. (964)

<400> 10578  
 ttatcatgcc ttgttttaaa aaaactactt tttttggcct caaaaaaato aagggtgtaa 60  
 tttttaataa attgttaatc ctatgttttg taattttcat tttaggagct tgacttattt 120  
 tttttctctc cataaaaaca catttgtttt aattgttagga gaaattttct cagcattttg 180  
 catgtttcttt ctaatctttg ttggtctgaa tatatttggt gtaattactg taattattca 240  
 acaaaaagca tatccgttca aaaatttttc cactatgtct tttttctagt ggotactgtt 300  
 ttagtttttct agttgaatat ctctgacaag ctttcgtatg gttttgttat attaatgtgt 360  
 tttcaaagtg aagactacag cacctcgccg gtactgtgtg aggccaaca gtggaattat 420

009270 69462960

```

tgaccaggg tcaactgtga ctgtttcagt aatgctacag ccctttgact atgaccgaa 480
tgaaaagagt aaacacaagt ttatggtaca gacaattttt gctccaccaa acacttcaga 540
tatggaagct gtgtggaaag aggcaaaacc tgatgaatta atggattcca aattgagatg 600
cgtatttgaa atgccaatg aaaatgataa attgaatgat atggaacctt gcaaagctgt 660
tccactgaat gcatctaagc aagatggacc tatgcaaaaa ccacacagtg tttacttaa 720
tgataccgaa acaaggaaac taatggaaga gtgtaaaaga cttcaggagg aaatgatgaa 780
gctatcagaa gaaaatcggc acctgagaga tgaaggttta aggtcagaa aggtagcaca 840
ttcggataaa cctggatcaa cctcaactgc atccttcaga gataatgtca ccagtcctct 900
tccttcactt cttgttgtaa ttgcagccat tttcattgga ttctttctag ggaaattcat 960
ctttagagat gaagcatgca gaggctgtt tctttttttt tttttctct tgaccagaaa 1020
aagatttggt tacctaccat ttcattggta gtatggccca cggtagaccat tttttgtgt 1080
gtacagcgtc atataggctt tgcctttaat gatctcttac ggtagaaaa cacaataaaa 1140
acaaactgtt cggctactgg acagggttga tattaccaga tcatcactag cagatgtcag 1200
ttgcacattg agtcttttat gaaattcata aataaagaat tgttctttct ttgtggtttt 1260
aataagagtt caagaattgt tcagagtctt gtaaattgta ttttgataat ccttttaa 1320
tttatctgtt gctgttacct cttgaaatat gatttattta gattgcta 1380
caggaaatgc caagaggtat tcttgggga aatgggtgct cttacagtgt aaattttcc 1440
tcctttacct ttgctaatat catggcagaa ttttcttat ccctgtgag gcagttgtt 1500
actgagtttt tcatccttac aatcctgtcc catggtattt aacataaaaa aaataaaact 1560
gttaacagat tcttgcctg 1579

```

<210> 10579  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<400> 10579

Met	Leu	Gln	Pro	Phe	Asp	Tyr	Asp	Pro	Asn	Glu	Lys	Ser	Lys	His	Lys
1				5					10					15	
Phe	Met	Val	Gln	Thr	Ile	Phe	Ala	Pro	Pro	Asn	Thr	Ser	Asp	Met	Glu
			20					25					30		
Ala	Val	Trp	Lys	Glu	Ala	Lys	Pro	Asp	Glu	Leu	Met	Asp	Ser	Lys	Leu
			35				40					45			
Arg	Cys	Val	Phe	Glu	Met	Pro	Asn	Glu	Asn	Asp	Lys	Leu	Asn	Asp	Met
	50				55					60					
Glu	Pro	Ser	Lys	Ala	Val	Pro	Leu	Asn	Ala	Ser	Lys	Gln	Asp	Gly	Pro
	65				70				75					80	
Met	Pro	Lys	Pro	His	Ser	Val	Ser	Leu	Asn	Asp	Thr	Glu	Thr	Arg	Lys
				85				90						95	
Leu	Met	Glu	Glu	Cys	Lys	Arg	Leu	Gln	Gly	Glu	Met	Met	Lys	Leu	Ser
			100				105					110			
Glu	Glu	Asn	Arg	His	Leu	Arg	Asp	Glu	Gly	Leu	Arg	Leu	Arg	Lys	Val
		115				120					125				
Ala	His	Ser	Asp	Lys	Pro	Gly	Ser	Thr	Ser	Thr	Ala	Ser	Phe	Arg	Asp
	130					135					140				
Asn	Val	Thr	Ser	Pro	Leu	Pro	Ser	Leu	Leu	Val	Val	Ile	Ala	Ala	Ile
145					150					155					160

009240 69462960

Phe Ile Gly Phe Phe Leu Gly Lys Phe Ile Leu  
165 170

<210> 10580  
<211> 1671  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (429).. (923)

<400> 10580  
cattaaaaag cccagctttc ctccatgtta gatgtgactt ggaaaatgag aaagatttag 60  
caaaattcca cagtatcttt tgccaggcta gagacaggga gagcagggtta aaaccctcag 120  
gctgctgaaa tttctaggct gttaggaagc ccctcgaatt ctgtgaaaat gagggtttct 180  
taactcacac tgagagcgga aaggggcaga cccttttcat aactccctca agtgtgtgtt 240  
acctttcttt accagcatgg taagcaacag gacatatccc agcctcggac atgtctgtat 300  
gatccaaggt acccaaagtc agacagagta aactcaagcc tggcactggc tttctgccgc 360  
ttcatgtgct ttggaaaaag caggagaagc aatagcagca ggagtcccca gcagctggag 420  
ccgcaagaat gaaccgcaaa gaggggaactg acagcagctg cggctgcagg ggcaacgacg 480  
agaagaagat gttgaagtgt gtggtggttg gggacggtgc cgtggggaaa acctgcctgc 540  
tgatgagcta cgccaacgac gccttcccag aggaatacgt gccactgtg tttgaccact 600  
atgcagttac tgtgactgtg ggaggcaagc aacacttgct cggactgtat gacaccgcgg 660  
gacaggagga ctacaaccag ctgaggccac tctcctaccc caacacggat gtgtttttga 720  
totgcttctc tgtcgtaaac cctgcctctt accacaatgt ccagattgat ctccgtgatg 780  
acccaaaaaa ccttggcccg tttgctgtat atgaaagaga aacctctcac ttacgagcat 840  
ggtgtgaagc tcgcaaaagc gatcggagca cagtgtctact tggaatgttc agctctgact 900  
cagaaagggtc tcaaagcggg ttttgatgaa gcaatcctca ccattttcca cccaagaaa 960  
aagaagaaac gctgttctga gggtcacagc tgctgttcaa ttatctgagg ttgtctggga 1020  
cctgcctcca ccccatccag ggatgagaat ggcagccaat ctctgtggcc aagctccagc 1080  
caaaaaggag ggcacgacca gaaagaacct gtcaaaaaaa aaaaaaaaac aacctacatt 1140  
tcaagtacta tttcccttct ctcccatcta attgctaaag attttctttc atacgcacac 1200  
actccagtga ctggaaaaac gggagttttc agtcaaagct tgacatttag agaaaacaag 1260  
gactttctgc ctttataaat ggaaatcaac tgtgtatgaa ctataactct gcagaggtta 1320  
tgaattcatc ctttacaac aataatgaac ttttagtctt gtaataaatg aaatgttatt 1380  
aggcagcttt gttgcatgat tgcatagtta tatcttgcta acgggccact catttctcac 1440  
tgatgtggat gaaaaaatga gagcagtatg tttccagggtg tgtgactca acaggcaa 1500  
agctcccgag gtcaccactt ccctaattggg ccacaggaag taagttgatc atgatgggga 1560  
gatcacgtca cccagaacca gcaactggat agagactgtt gttagcgtct gggtagagca 1620  
caggcttcca ggggtcttaa gagctaatta ctgaataaaa caatctagaa c 1671

<210> 10581  
<211> 165  
<212> PRT  
<213> Homo sapiens

0092270" 69462960

<400> 10581

```

Met Asn Arg Lys Glu Gly Thr Asp Ser Ser Cys Gly Cys Arg Gly Asn
 1          5          10          15
Asp Glu Lys Lys Met Leu Lys Cys Val Val Val Gly Asp Gly Ala Val
          20          25          30
Gly Lys Thr Cys Leu Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu
          35          40          45
Glu Tyr Val Pro Thr Val Phe Asp His Tyr Ala Val Thr Val Thr Val
          50          55          60
Gly Gly Lys Gln His Leu Leu Gly Leu Tyr Asp Thr Ala Gly Gln Glu
          65          70          75          80
Asp Tyr Asn Gln Leu Arg Pro Leu Ser Tyr Pro Asn Thr Asp Val Phe
          85          90          95
Leu Ile Cys Phe Ser Val Val Asn Pro Ala Ser Tyr His Asn Val Gln
          100          105          110
Ile Asp Leu Arg Asp Asp Pro Lys Asn Leu Gly Pro Phe Ala Val Tyr
          115          120          125
Glu Arg Glu Thr Ser His Leu Arg Ala Trp Cys Glu Ala Arg Lys Ser
          130          135          140
Asp Arg Ser Thr Val Leu Leu Gly Met Phe Ser Ser Asp Ser Glu Arg
          145          150          155          160
Ser Gln Ser Gly Phe
          165

```

<210> 10582

<211> 1638

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (125)..(1333)

<400> 10582

```

agatatgaca ggtaggctct ttcaggctac agggagaaga cactttagag aaaatgttag 60
ggagtaatag agtggctttt tcgttttttt gcttctctgc ttatagtatt ttgttttggg 120
agggatggga tctggccttg attttgcaga gacttcttgt gccagcccg tagtatctac 180
ccaatcagac aaggagccag gaattactgc ttctgctact gatactgata atgctaattg 240
agaggaggta ccacatactc aagagatttc agtgtcttgg gaaggagaag ctgccctga 300
gataaggaca tctaagttag gccagccaga tcctgcaccc tctaagaaga aatccaatag 360
actcacctta agcaaaagaa agaaggaagc tcaagatgag aaggaggaga aaactcaagg 420
tgacatgag cacagacagg aagaccgact aaagaaaaca gttcaggatc attctcagat 480
cagggaccag caaaaaggag agataagtgg ttttgggtcaa tgtctgggtc ggggccagt 540
ttccttccca aactgtggga aatggaggcg gctgtgtggg aacattgacc cctcagttct 600
cccagataat tggtcctgtg atcagaacac agatgtgcag tataatogct gtgatattcc 660
tgaggagacc tggacagggc ttgagagtga tgtggcctat gctcctaca tcccaggatc 720

```

008220"69462960



Ala	Ser	Tyr	Ile	Pro	Gly	Ser	Ile	Ile	Trp	Ala	Lys	Gln	Tyr	Gly	Tyr
	195						200					205			
Pro	Trp	Trp	Pro	Gly	Met	Ile	Glu	Ser	Asp	Pro	Asp	Leu	Gly	Glu	Tyr
	210						215				220				
Phe	Leu	Phe	Thr	Ser	His	Leu	Asp	Ser	Leu	Pro	Ser	Lys	Tyr	His	Val
225					230					235					240
Thr	Phe	Phe	Gly	Glu	Thr	Val	Ser	Arg	Ala	Trp	Ile	Pro	Val	Asn	Met
			245						250					255	
Leu	Lys	Asn	Phe	Gln	Glu	Leu	Ser	Leu	Glu	Leu	Ser	Val	Met	Lys	Lys
			260					265					270		
Arg	Arg	Asn	Asp	Cys	Ser	Gln	Lys	Leu	Gly	Val	Ala	Leu	Met	Met	Ala
		275					280					285			
Gln	Glu	Ala	Glu	Gln	Ile	Ser	Ile	Gln	Glu	Arg	Val	Asn	Leu	Phe	Gly
	290					295					300				
Phe	Trp	Ser	Arg	Phe	Asn	Gly	Ser	Asn	Ser	Asn	Gly	Glu	Arg	Lys	Asp
305					310					315					320
Leu	Gln	Leu	Ser	Gly	Leu	Asn	Ser	Pro	Gly	Ser	Cys	Leu	Glu	Lys	Lys
			325						330					335	
Glu	Lys	Glu	Glu	Glu	Leu	Glu	Lys	Glu	Glu	Gly	Glu	Lys	Thr	Ala	Leu
			340					345					350		
Arg	Lys	Asn	Leu	Lys	Leu	Pro	Arg	Ala	Arg	Pro	Trp	Gln	Pro	Ala	Phe
		355					360					365			
Gln	Arg	Glu	Lys	Lys	Leu	Glu	Gln	Cys	Gln	Arg	Thr	Trp	Ala	Tyr	Gln
	370					375					380				
Arg	Val	Arg	Gly	Pro	Ala	Pro	His	Leu	Arg	Lys	Lys	Ser	Pro	Asp	Thr
385					390					395					400
Gly	Asn	Pro													

<210> 10584  
 <211> 2437  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (81).. (650)

<400> 10584  
 gaagactgcg cgtttgagtg tccctggcaa cgccacgctt cgcctttctg gaagcctgca 60  
 ctccagottc gagtggaaacg atgcctctgg aggtggtggt ggagctgcag atccgggcca 120  
 tttcttgccc aggagtgttc ctgcctggca aacaagatgt gtacctggg gtctacctca 180  
 tgaatcagta cctggagacc aacagctttc cctctgcgtt cccattatg attcaggaga 240  
 goatgagatt tgaaaaggta tttgaaagt cagtagatcc tggagctgta gtagacctt 300  
 tggaaatgtg ggatgagttg gcctactacg aagaaaacac acgagatttt cttttcccag 360  
 agcccaagct gacacctcg caccctagga ggtgtaggga ggtgctcatg aagacggctc 420  
 tgggttttcc aggcattgct ccctaaatag agttttctac aaggacagcc atcagagaat 480

008220.69462960



```

gtgtgtttct gcatagaaac agatttcttg gctggggaaa caaagggaag atgttggttc 540
agcaagaaca cagaagctta aagaagaaac tgaacagaaa tgggacccag acctctggag 600
aagggtgctt ttcttgatg cttcttcagg aattcgaagg aagaaagaca tgagtcacgg 660
aggcctttat ctacatcaca tgaaccaata ttcccttaa atactataaa gatgaaacta 720
aaggagaata atctcaacag actgccc aaa ggcatgcaag cccgggcgcc ctctcagtat 780
tctaccaggc atttcttcca ggaccagcca gctcagttga accttgga aa taatttcaaa 840
atctctggag gaagcaagcc tccatttgtt gttagacacg tgagcctaaa attatTTTTT 900
agagcatttt gcaatagtga ggatatggat gaggttgga gaaaggaaagg ttgagttata 960
acaacaaatg aataatattc aataaaaagg tggacagtgc aaagcccttt ggtgagaata 1020
tttcagagca tcat ttgagg aggtctggaa gaaaatctaa gttttcagac tttccgtttc 1080
caacgagaag aggttccatc ctggttctca gtccacatgg aagaatatcc atgagagggt 1140
atgcagtctt ctgacatccc acagagcaca gctgcaccaa aacaaggaa attctacctc 1200
tgaagtaaat tatatcattg aaagaccaag ctaccctctg aagaaatact cactgcatga 1260
acagagatat ttttaagggg aagttaatga aagcttaagg agaatoatga agagctcact 1320
cactgagaca attgaagcat ccttaaagaa atgaacactt tttgttgtct gtgttgagtc 1380
actgatgtct aatccccctt aaacc aaacc ctgtactcag tottttgtgc ccaggtttta 1440
agctccatga aggcaggaga cctagctatc tgcttgttca cgaatgtata ctcagtgcgc 1500
agcacatagg agatgctcag taaacatgct gattgaatga ctaacaggta ttttaagtatg 1560
gctgactgcc ctggatccct ctcccaggct ctggccccct ggagcagag tggtgccaga 1620
acaaaacttg ccagttccag ctgctgccct tatgatctgt gtgatcttga aaaagtggct 1680
taatctgtct tcaacctcct gtttccttat ctctaaagat ggagttaagg tcccacctac 1740
ttgatgactt catagggctg ctatgaggat taaataaaca ggttcatgat ttttaaattc 1800
caaatgittt cttttattcc ccagagaaaa caaggcagga tatgatotta ctttgttaat 1860
ccagggcata gggaaatctc tgcagccttg attagtactc cctggatgtt caaaggga aa 1920
ggaagaggca aagaggagca tgcaaaatct ttctgtgcat gcatcaccta tgacatctac 1980
ttttcttaga gacatgaaga actctcttaa aataggtaat atcaccactc taggctattt 2040
ggtgatgita acaaaataaa ctggtccttg agcagaatca gctaaaggtc cccttgaagc 2100
ctctgtcagc tgggtccacat ttgaagttca aaacatgcat caagaagcag tgggctctcc 2160
aggtgcagtg gttcatgcct gtaatcccag cactttggga ggctgaggca agtggatcac 2220
ttgaggtcag gaggttcaaga ccagcctggc caacatggtg taacctcatc tctactaaaa 2280
atacaaaaat tagccggtgg tgggtggcaca cacctatagt cccagctact tgggaggctg 2340
aggcaggaga atcgcttgaa cccaggaggt ggaggttgca agtgagctga gatcgcacca 2400
ctgcactcca gcctgggcaa cacagtgaga ctctgtc 2437

```

<210> 10585  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 10585  
 Met Pro Leu Glu Val Val Val Glu Leu Gln Ile Arg Ala Ile Ser Cys  
 1 5 10 15  
 Pro Gly Val Phe Leu Pro Gly Lys Gln Asp Val Tyr Leu Gly Val Tyr  
 20 25 30  
 Leu Met Asn Gln Tyr Leu Glu Thr Asn Ser Phe Pro Ser Ala Phe Pro  
 35 40 45  
 Ile Met Ile Gln Glu Ser Met Arg Phe Glu Lys Val Phe Glu Ser Ala

50	55	60
Val Asp Pro Gly Ala Val Val Asp Leu Leu Glu Met Trp Asp Glu Leu		
65	70	75
Ala Tyr Tyr Glu Glu Asn Thr Arg Asp Phe Leu Phe Pro Glu Pro Lys		80
	85	90
Leu Thr Pro Ser His Pro Arg Arg Cys Arg Glu Val Leu Met Lys Thr		95
	100	105
Ala Leu Gly Phe Pro Gly Ile Ala Pro Lys Ile Glu Phe Ser Thr Arg		110
	115	120
Thr Ala Ile Arg Glu Cys Val Phe Leu His Arg Asn Arg Phe Leu Gly		125
	130	135
Trp Gly Asn Lys Gly Lys Met Leu Val Gln Gln Glu His Arg Ser Leu		140
145	150	155
Lys Lys Lys Leu Asn Arg Asn Gly Thr Gln Thr Ser Gly Glu Gly Leu		160
	165	170
Leu Ser Trp Met Leu Leu Gln Glu Phe Glu Gly Arg Lys Thr		175
	180	185
		190

<210> 10586  
 <211> 1539  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (137).. (1372)

<400> 10586

caaaaagaac aacctgtttg ttgttgaccg atctgacaag ttggggcgctg tgcaggagtt	60
caatagtggc cttctgcact ggcagctcgg cgggggtgac accaccgagc acattcagac	120
tcactttgag agcaagatgg aaattcctcc tgcaggcgcc ccacctcccc ccttaagctc	180
cgcaggtaga aagaaagagc aagaaggcaa aggcgactct gaagagcagc aagagaaaag	240
catcatagca accatcgatg acgtcctctc tgctcggcca ggggcattgc ctgaagacgc	300
aaaccctggg ccccagaccg aaagcagtaa gtttcctttt ggtatccagc aagccaaaag	360
tcaccggaac atcaagctgc tggaggacga gccaggagc cgagacgaga ctctctgtg	420
taccatcgcg cactggcagg actcgttggc taagcgatgc atctgtgtgc ccaatattgt	480
ccgtagcttg tcattcgtgc ctggcaatga tgccgaaatg tccaaacatc caggcctggt	540
gctgatcctg gggaagctga ttcttcttca ccacgagcat ccagagagaa agcagacacc	600
gcagacctat gagaaagagg aggatgagga caaggggggtg gcctgcagca aagatgagtg	660
gtgggtgggac tgccctcgagg tcttgaggga taacacgttg gtcacgttgg ccaacatttc	720
cgggcagcta gaactgtctg cttacacgga aagcatctgc ttgccaattt tggatggctt	780
gctgcactgg atggtgtgcc cgtctgcaga ggcacaagat ccctttccaa ctgtgggacc	840
caactcggtc ctgtcgcctc agagacttgt gctggagacc ctctgttaaac tcagtatcca	900
ggacaataat gtggacctga tcttgccac tctccattt agtcgtcagg agaaattcta	960
tgctacatta gttaggtacg ttggggatcg caaaaaccca gtctgtcgag aaatgtccat	1020
ggcgttttta tcgaaccttg cccaagggga cgcactagca gcaagggcca tagctgtgca	1080
gaaaggaagc attggaaact tgataagctt cctagaggat ggggtcacga tggcccagta	1140

002220-69462960

```

ccagcagagc cagcacaacc tcatgcacat gcagcccccg cccctggaac cacctagcgt 1200
agacatgatg tgcagggcgg ccaaggcttt gctagccatg gccagagtgg acgaaaaccg 1260
ctcgggaattc cttttgcacg agggccgggtt gctggatata tcgatatacag ctgtcctgaa 1320
ctctctgggtt gcatctgtca tctgtgatgt actgtttcag attgggcagt tatgacataa 1380
gtgagaaggc aagcatgtgt gagtgaagat tagagggtca catataactg gctgttttct 1440
gttcttgttt atccagcgta ggaagaagga aaagaaaatc tttgctcctc tgccccattc 1500
actatttacc aattgggaat taaagaaata attaatttg 1539

```

<210> 10587  
 <211> 412  
 <212> PRT  
 <213> Homo sapiens

<400> 10587

Met	Glu	Ile	Pro	Pro	Arg	Arg	Arg	Pro	Pro	Pro	Pro	Leu	Ser	Ser	Ala	1	5	10	15
Gly	Arg	Lys	Lys	Glu	Gln	Glu	Gly	Lys	Gly	Asp	Ser	Glu	Glu	Gln	Gln	20	25	30	
Glu	Lys	Ser	Ile	Ile	Ala	Thr	Ile	Asp	Asp	Val	Leu	Ser	Ala	Arg	Pro	35	40	45	
Gly	Ala	Leu	Pro	Glu	Asp	Ala	Asn	Pro	Gly	Pro	Gln	Thr	Glu	Ser	Ser	50	55	60	
Lys	Phe	Pro	Phe	Gly	Ile	Gln	Gln	Ala	Lys	Ser	His	Arg	Asn	Ile	Lys	65	70	75	80
Leu	Leu	Glu	Asp	Glu	Pro	Arg	Ser	Arg	Asp	Glu	Thr	Pro	Leu	Cys	Thr	85	90	95	
Ile	Ala	His	Trp	Gln	Asp	Ser	Leu	Ala	Lys	Arg	Cys	Ile	Cys	Val	Pro	100	105	110	
Asn	Ile	Val	Arg	Ser	Leu	Ser	Phe	Val	Pro	Gly	Asn	Asp	Ala	Glu	Met	115	120	125	
Ser	Lys	His	Pro	Gly	Leu	Val	Leu	Ile	Leu	Gly	Lys	Leu	Ile	Leu	Leu	130	135	140	
His	His	Glu	His	Pro	Glu	Arg	Lys	Arg	Ala	Pro	Gln	Thr	Tyr	Glu	Lys	145	150	155	160
Glu	Glu	Asp	Glu	Asp	Lys	Gly	Val	Ala	Cys	Ser	Lys	Asp	Glu	Trp	Trp	165	170	175	
Trp	Asp	Cys	Leu	Glu	Val	Leu	Arg	Asp	Asn	Thr	Leu	Val	Thr	Leu	Ala	180	185	190	
Asn	Ile	Ser	Gly	Gln	Leu	Asp	Leu	Ser	Ala	Tyr	Thr	Glu	Ser	Ile	Cys	195	200	205	
Leu	Pro	Ile	Leu	Asp	Gly	Leu	Leu	His	Trp	Met	Val	Cys	Pro	Ser	Ala	210	215	220	
Glu	Ala	Gln	Asp	Pro	Phe	Pro	Thr	Val	Gly	Pro	Asn	Ser	Val	Leu	Ser	225	230	235	240
Pro	Gln	Arg	Leu	Val	Leu	Glu	Thr	Leu	Cys	Lys	Leu	Ser	Ile	Gln	Asp	245	250	255	
Asn	Asn	Val	Asp	Leu	Ile	Leu	Ala	Thr	Pro	Pro	Phe	Ser	Arg	Gln	Glu				

003220.59462950



```

ctttgccatt gcaggagcca ccgagccagg cagcaggcac catccctggc ccagaccctg 1080
aggcccatca gctgttctca gcccatgggt ccttcctgct gggcctgatg gccttcacca 1140
gtgccgtgac caatggcgtg ctgccttctg tgcagagctt ttctgttttg ccctatgggc 1200
gcctggccta ccacctggct gtggtgctgg gcagtgcgc caacccccctt gcctgcttcc 1260
tggccatggg cgtgctgtgc aggtccctgg cagggtgtgt tggcttttct ctgctgggca 1320
tgctctttgg ggccctacgt atggcactgg caatcctgag cccctgcccc cccctgggtg 1380
gcaccactgc aggggtggtc cttgtggtgc tgtcgtgggt gctgtgtctg tgtgtgttct 1440
catatgtgaa ggtggctgca agctccctgc tgcattgtgg gggtcggccg gcattgctgg 1500
cagctgggtgt ggccatccaa gtgggctccc tgcattgtgc cggtgccatg ttccctccca 1560
ccagcatcta ccacgtgttt caaagcagaa aggactgtgt agaccctgtt ggccctgag 1620
cctgggcagg tggggaccca actccacccc acctgtcttc atcgtgaggc tgccacagt 1680
cctgactact tgtggcccag gcaggcttcc cccaacacag gaacgctcat ggacacctgc 1740
acactccaca gaagacgttg gcatgtgagg ccagggtggg caccaaagac caggcccaga 1800
gccaggggac aggttggggc tgtgggcttg gaccaggggc ctgagacctt tgtgggattt 1860
gtgaataaaa gtgtttttat ttaaaacc                                     1888

```

<210> 10589

<211> 448

<212> PRT

<213> Homo sapiens

<400> 10589

```

Met Ala Ala Pro Thr Leu Gly Arg Leu Val Leu Thr His Leu Leu Val
 1           5           10           15
Ala Leu Phe Gly Met Gly Ser Trp Ala Ala Val Asn Gly Ile Trp Val
          20           25           30
Glu Leu Pro Val Val Val Lys Asp Leu Pro Glu Gly Trp Ser Leu Pro
          35           40           45
Ser Tyr Leu Ser Val Val Val Ala Leu Gly Asn Leu Gly Leu Leu Val
          50           55           60
Val Thr Leu Trp Arg Arg Leu Ala Pro Gly Lys Gly Glu Gln Val Pro
          65           70           75           80
Ile Gln Val Val Gln Val Leu Ser Val Val Gly Thr Ala Leu Leu Ala
          85           90           95
Pro Leu Trp His His Val Ala Pro Val Ala Gly Gln Leu His Ser Val
          100          105          110
Ala Phe Leu Thr Leu Ala Leu Val Leu Ala Met Ala Cys Cys Thr Ser
          115          120          125
Asn Val Thr Phe Leu Pro Phe Leu Ser His Leu Pro Pro Pro Phe Leu
          130          135          140
Arg Ser Phe Phe Leu Gly Gln Gly Leu Ser Ala Leu Leu Pro Cys Val
          145          150          155          160
Leu Ala Leu Val Gln Gly Val Gly Arg Leu Glu Cys Pro Pro Ala Pro
          165          170          175
Thr Asn Gly Thr Ser Gly Pro Pro Leu Asp Phe Pro Glu Arg Phe Pro
          180          185          190
Ala Ser Thr Phe Phe Trp Ala Leu Thr Ala Leu Leu Val Thr Ser Ala

```

00629469 072600



```

acaatctggg ccagaagggg agcgcagctt ggcacccccct gatgccagca tcctcatcag 360
caatgtgtgc agcatcgggg accatgtggc ccaggagctt tttcagggct cagatttggg 420
catggcagaa gaggcagaga ggcctgggga gaaagccggc cagcacagcc ccctgcgaga 480
ggagcatgtg acctgcgtac agagcatott ggacgaattc cttcaaactg atggcagcct 540
catacccttc agcactgatg aggtagtaga gaagctggag gacattttcc agcaggagt 600
ttccacccct tccaggtgag gcttgaaagc cctccttgaa agaagggtg gggccttggg 660
gatgtggaga gaatactgct gccttttctt ccatagggct gtagttgggg aggaggaagc 720
tagagctgaa ggggaggact ctgcaggcag gtgccaaatc cttggaagct gatgggagag 780
tctttacctg ggaccctgaa atgttctacc tgagtagtca tgtttatctt tctggggagt 840
gggccttttc caggtcctca gaaggacca tcatgagcca gaaaaaggg agtcagttag 900
aatttgtatt ccaggagata gtaggtattt ctgtgtgccc cagctgcatc atcttttgtg 960
tgactccacc cttggcctac tcaggaaggg cctgggtgtg cagctgatcc agtcttacca 1020
goggatgcca ggcaatgcca tgggtagggg ctcccgagtg gottataagc ggcacgtgct 1080
gaccatggat gacttgggga ccttgtatgg acagaactgg ctcagtgacc aggtgagaaa 1140
gggtagagaa acaggcctga gaggggattc agggagcagg gtgtctgggg ccctctgcat 1200
gggggagccc tgtaccatg ccgcacccctc catggcaagc tgccctccat cttctcccca 1260
ggtgatgaac atgtatggag acctggtcat ggacacagtc cctgaaaagg taggccaac 1320
cagataggtc agtaccaga ggaacttctg cagttttaag cagcttttta agctcctttc 1380
atctctttca ttttacacag agagggtctc tgtttcaggg agagaggtgg tagtggtagt 1440
gtattaattt caaatccgta atcttgggct ctggatttat cagttgtttt cctttctgcc 1500
agtatttagt gtttttcgct atggccagcc ccaaggattg ggatgggttc ctattgtaac 1560
tattgtaaaa caagattt                                     1578

```

<210> 10591  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<400> 10591

Met	Ser	Arg	Asn	Ser	Leu	Ser	Ile	Pro	Val	Glu	Ser	Leu	Gly	His	Val
1				5				10					15		
Tyr	Leu	Met	Leu	Met	Gly	Ser	Pro	Phe	Leu	Gly	Val	Gly	Leu	Thr	Leu
			20					25					30		
Val	Asp	Ser	Ala	Ser	Val	Tyr	Pro	Ser	Cys	Gly	Leu	Ile	Cys	Met	His
			35				40					45			
Glu	Ser	Thr	Val	Cys	Ile	Pro	Leu	Cys	Phe	Pro	Gln	Ala	Ser	Leu	Ser
			50			55					60				
Cys	Pro	Phe	His	Phe	Pro	Cys	Pro	Ile	Gly	Leu	Leu	Ser	Cys	Thr	Leu
			65			70				75					80
Pro	Asn	Gly	Phe	Gly	Gly	Gln	Ser	Gly	Pro	Glu	Gly	Glu	Arg	Ser	Leu
				85				90						95	
Ala	Pro	Pro	Asp	Ala	Ser	Ile	Leu	Ile	Ser	Asn	Val	Cys	Ser	Ile	Gly
			100					105					110		
Asp	His	Val	Ala	Gln	Glu	Leu	Phe	Gln	Gly	Ser	Asp	Leu	Gly	Met	Ala
			115					120					125		
Glu	Glu	Ala	Glu	Arg	Pro	Gly	Glu	Lys	Ala	Gly	Gln	His	Ser	Pro	Leu
			130			135									140

09629469-072800

Arg Glu Glu His Val Thr Cys Val Gln Ser Ile Leu Asp Glu Phe Leu  
 145 150 155 160  
 Gln Thr Tyr Gly Ser Leu Ile Pro Leu Ser Thr Asp Glu Val Val Glu  
 165 170 175  
 Lys Leu Glu Asp Ile Phe Gln Gln Glu Phe Ser Thr Pro Ser Arg  
 180 185 190

<210> 10592  
 <211> 1732  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (14).. (370)

<400> 10592  
 ataggcgacc ctaatgggtt ttgtgagatg tcgtattaag totgtgggtcc atagagtaat 60  
 gcccttcgct gtcagggaat gcaagggaag agcagggaat tccagaatgg gaagggtgtgt 120  
 gaatgtagac cttcaggttg gtcacaaaca gtgtctcgag attccactgg ggaagcggtc 180  
 acttttagaa tcaggccaag ctgagggttc tctgtcctca ggtatitttc tttgtagcag 240  
 tcaactggctc gaaatggaga atgagagaaa aaggagcttg tttcaggcca gagacctcac 300  
 taaccgaata acaacactaa ggccctgcag caggggggcac aaactaccca gcctgtttcc 360  
 gtgtggccta tgatggtttt tttgtttgtt tgtttacatt ttttaattgg tggaaaaaat 420  
 caaaaagaggc atatctacct atttcataac atgataatta taggaaattc aaatgtgggt 480  
 gactataaag ctttattgga acacaggcac gcccatctgt tctgtatttg totatcactg 540  
 cttttgtgct gcgatgacag aggctgcatg tggcctgcaa agcccccatt ttttatcatc 600  
 cagcccttta cagaaagagt ttgctgggtc ctctcataaa gtatcctttt ttttaaatgt 660  
 gacagagtct agctctgttg cccaggctgg agtgcagtgg cgcgatctcg gcttactgaa 720  
 acctctgcct cccgggttcg ggcgattctc ccgcctcagc ctcttgagta gctgggatca 780  
 caggcgcgtg ccaccatgcc cagctaattt ttgtatgttt agtggagaca gggtttcacc 840  
 gtgttgggtc ggctgggtct gaactcctga ccttgtaatc cgcgcgcctc ggcttcccaa 900  
 agtgcctggga ttacaggcgt gagccaccgt gcccggccta aagtatcttt tttatcatga 960  
 tagttcacgc ttattcattg atgggctgcc ttcttaccac atgtccttga catgttttaa 1020  
 ttctttaagt cctcatagta accctagtac atgtactcct gtgattgcca ttttactgat 1080  
 agggaaacac aggcagagtc tcatgtaatc tgccttctgt caccagcca gaaaaggga 1140  
 gaactaggat gcaagcacag ggagtctgaa gccagggtac ccattcttga gcaccctgtc 1200  
 acgctacctc tcattatcag gttctgcaat actttatcct tggagcaagc aagggtgaggt 1260  
 gcctacattt tcccatgcaa gtgccccaat ctgtccctga gaattaaggc ccagagagaa 1320  
 tgatgctttc tcagaccctc aggaacattc cttcctgatt tgccagtaag tggcagagct 1380  
 gggaccaaga cccaggtggc tctaattctc tcttcattct cctcattctc caagatgggtg 1440  
 gccctccctc ttgtgccagg gactcccaga tgcccactct tgggcacagc aaagaaccca 1500  
 gatgctcagg cctcatggat tccaaggccc cagcaagtga catccctatt agccgggggag 1560  
 aaggccctgg ctattgttct gtttgctttc ctttgtgatg tattgttaca taggaaattt 1620  
 atttcttaac aatttcactt acagccctta aaacaaaatg gggctctgga gaactgcatc 1680  
 attagcattg ataaacattt tacaatacca tcatgagcaa atggaagtgt ct 1732

00620469.072800



<210> 10593  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 10593

Met	Gly	Phe	Val	Arg	Cys	Arg	Ile	Lys	Ser	Val	Val	His	Arg	Val	Met
1				5				10					15		
Pro	Phe	Ala	Val	Arg	Glu	Cys	Lys	Gly	Arg	Ala	Gly	Asn	Ser	Arg	Met
			20					25				30			
Gly	Arg	Cys	Val	Asn	Val	Asp	Leu	Gln	Val	Gly	His	Lys	Gln	Cys	Leu
		35					40					45			
Glu	Ile	Pro	Leu	Gly	Lys	Arg	Ser	Leu	Leu	Glu	Ser	Gly	Gln	Ala	Glu
	50					55				60					
Gly	Ser	Leu	Ser	Ser	Gly	Ile	Phe	Leu	Cys	Ser	Ser	His	Trp	Leu	Glu
65					70					75				80	
Met	Glu	Asn	Glu	Arg	Lys	Arg	Ser	Leu	Phe	Gln	Ala	Arg	Asp	Leu	Thr
				85					90					95	
Asn	Arg	Ile	Thr	Leu	Arg	Pro	Cys	Ser	Arg	Gly	His	Lys	Leu	Pro	
			100				105						110		
Ser	Leu	Phe	Pro	Cys	Gly	Leu									
						115									

<210> 10594  
<211> 1599  
<212> DNA  
<213> Homo sapiens

<220>

<221> CDS

<222> (89).. (784)

<400> 10594

agatgcggtg	gtggccgccg	agcgccctgga	aggagctgct	ggacaggccg	agggagcctc	60
cgcccgagac	cgcgagccg	ccgcccgcct	ggctacaaaa	gacccacag	ctgtagagag	120
agcaaaacttg	ttaaacttg	ctaaactgag	tatcaaagga	ctcattgaat	ctgctctgag	180
ctttggccgc	actttggatt	ctgactatcc	ccccttgcag	caattctttg	ttgttatgga	240
acattgcctg	aaacacggtc	ttaaagtaag	aaaatcattt	ttgagttaca	acaaaaccat	300
ctggggccct	ttggaactgg	tggagaagct	gtaccccgaa	gcagaggaaa	taggagctag	360
tgtccgggat	ctacctggtc	tgaagacccc	tctgggtcga	gcaagagcgt	ggcttcgatt	420
agccctcatg	cagaaaaaaa	tggccgatta	cttacgttgc	ttaattattc	agagggatct	480
cttgagttag	ttttatgagt	atcacgcact	aatgatggaa	gaagaaggag	cagtaattgt	540
tgggctgctg	gttggcctga	atgtgatcga	tgctaattctg	tgtgtgaagg	gagaggattt	600
agactcacga	gttggagtga	ttgatttttc	tatgtattta	aagaatgaag	aagatattgg	660
aaataaagaa	aggtatgatt	ttcataagtt	atttcacata	ttgggttttt	tatatagctc	720
tttacaaatc	attataagat	ccatctattt	acagtgtggt	tttattttgt	tgttttcccc	780

005270 5945950

```

cctgtgactt cttcatttca ttttcacttc cattacaagc tttacaaagc agattatgga 840
aatcacttta ggagaaggag gttttattaa tagtatgaag tgggaccttt ggttataacct 900
gtagtactg agacccattt taatagtggg tttttggaat aaaagagatg aaagcttatt 960
attcacaagt ttgcaaatac tggggagggt gaggcaggag aatcgcttga acccggaag 1020
cagaggttgc agtgagccga gatgcacca ctgcactcca acctgggtga cagagcaaga 1080
ctccatctca aaaacaaaga aacactgaac agttatoccta tctgatcttt ttatatgcag 1140
gatagtgatt aaatcactct acaaccactt tctctaatatt tctcctcata agcctaataca 1200
aatgtatttg ccttacttcc taccattctg ttgaagattc tccgaaaatt ggagaaagca 1260
ctaaatatgg taggaagatt ctcttgaagt tctgtgatac ttttgaaact gcattcctga 1320
gttctatcct tacttcccta aagcagcatg cacttttggg ttgttgtaa tcaggggtct 1380
cctgtgcttg gtgtgtgggg taggaaggca ggtgatcacc tgcaacaatt cttcacagat 1440
tggaagttaa acatgaaaag cccccggaga cccacgaac tagatgccag aaagttctgc 1500
agtcattgac tgtaactgc aattccaact atacggtcag ccctccatat ccatgggttc 1560
catatccgtg gattcaacca acatggattg aaatattcc 1599

```

<210> 10595  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<400> 10595

Met	Ala	Thr	Lys	Asp	Pro	Thr	Ala	Val	Glu	Arg	Ala	Asn	Leu	Leu	Asn
1				5					10					15	
Met	Ala	Lys	Leu	Ser	Ile	Lys	Gly	Leu	Ile	Glu	Ser	Ala	Leu	Ser	Phe
			20					25					30		
Gly	Arg	Thr	Leu	Asp	Ser	Asp	Tyr	Pro	Pro	Leu	Gln	Gln	Phe	Phe	Val
		35					40					45			
Val	Met	Glu	His	Cys	Leu	Lys	His	Gly	Leu	Lys	Val	Arg	Lys	Ser	Phe
	50					55					60				
Leu	Ser	Tyr	Asn	Lys	Thr	Ile	Trp	Gly	Pro	Leu	Glu	Leu	Val	Glu	Lys
	65				70					75				80	
Leu	Tyr	Pro	Glu	Ala	Glu	Glu	Ile	Gly	Ala	Ser	Val	Arg	Asp	Leu	Pro
				85					90					95	
Gly	Leu	Lys	Thr	Pro	Leu	Gly	Arg	Ala	Arg	Ala	Trp	Leu	Arg	Leu	Ala
			100					105					110		
Leu	Met	Gln	Lys	Lys	Met	Ala	Asp	Tyr	Leu	Arg	Cys	Leu	Ile	Ile	Gln
	115						120					125			
Arg	Asp	Leu	Leu	Ser	Glu	Phe	Tyr	Glu	Tyr	His	Ala	Leu	Met	Met	Glu
	130					135					140				
Glu	Glu	Gly	Ala	Val	Ile	Val	Gly	Leu	Leu	Val	Gly	Leu	Asn	Val	Ile
	145				150					155					160
Asp	Ala	Asn	Leu	Cys	Val	Lys	Gly	Glu	Asp	Leu	Asp	Ser	Arg	Val	Gly
				165					170					175	
Val	Ile	Asp	Phe	Ser	Met	Tyr	Leu	Lys	Asn	Glu	Glu	Asp	Ile	Gly	Asn
		180						185					190		
Lys	Glu	Arg	Tyr	Asp	Phe	His	Lys	Leu	Phe	His	Ile	Leu	Gly	Phe	Leu
		195					200						205		

00629459.072800

Tyr Ser Ser Leu Gln Ile Ile Ile Arg Ser Ile Tyr Leu Gln Cys Gly  
 210 215 220  
 Phe Ile Leu Leu Phe Ser Pro Leu  
 225 230

<210> 10596  
 <211> 1680  
 <212> DNA  
 <213> Homo sapiens

<400> 10596  
 caaagaagcg gagaaagagc taccggagct tcttacctga gaagagtggc taccctgaca 60  
 tcggcttccc cctcttccca ctttccaagg gtttcatcaa gagcatccgg ggtgtcctga 120  
 cgcagttccg ggctgccctg ctagaggcag gcatgccgga atgcacagag gacaagtagc 180  
 tgccaggcac agaggaaaga gcatcaccgt gggagaggcc agccgccgcc tgctcactcc 240  
 cccccggaat caccctctt cccatgcccc tctgtcccca ctgcaaacc actgccctct 300  
 tctccccaag gtgagttcga tgctgaagtg caagaagtgt gttgagatgc tgccgtttct 360  
 attttgaagc gagctttcaa caggcgggtc cctgtggca aagaaaatog gaaccctgtt 420  
 gccgattttc catttgtcac ccagcagaa tgcgggcac ttgtccctt gctgccctt 480  
 ctcaggtcag aggcgggtgt tccagggcct gccgggggc tctctgggccc ggttccctgc 540  
 agaccgcag gagagcacat gtgccttgca tgaagtgtgg gttgcgccaa caattccct 600  
 ggtccctttc aacctgttta gttcaactca agcctccctg tgtcccagac cctcctgctg 660  
 ccaccaccac ccaggtcctc cctagtccctc cagcgtcaac actatccctt gggagtgtga 720  
 gotgtgtca ctgactcccg gctatacatg gcctgtcgac cacgttatag cctcaggcc 780  
 tgttgaaact gctctctaag agaggttggg accaggctag gttccgggtg acgccagga 840  
 gaggtgtgg cttcacaca tgcacatgga gttgaggacc agggagctgc agggaaagca 900  
 acagctatag gtgccttgct cttctgtcgg aggctgtgg gggcaagagc agctgcacaa 960  
 ggccagggca agtgctaggc cccctcccc atcacatggt cacactggga caggcgtgca 1020  
 gctcactgaa ctccaagcga gccagccctc tcttgacta gaaggcctac tgtcagccct 1080  
 tcgcttacia actgcaggct caatccgaag gggacggccg gcgggggctc tctagtgcc 1140  
 cagagacagg cccagaggtt tacaagtttt ctaagctttt gataatgtga agctccaggc 1200  
 cgagaggatg ctgttgagca cattgcagct atgtaatttt tgggtgtatgt atgtaattt 1260  
 taagggtgaa aaaaaaactc aaaagcaaag atattaactc ttattagaaa aaaagacaaa 1320  
 aaaagccaaa gcatgatgcg tcttgtcagc ctttaagtggg ctccacacct gtgtgtgtct 1380  
 gtgaccgccc agccagcaga gctgcgggag gatggagccg gaccacacac cgtggcattt 1440  
 ggaaccgagt cggatatctt tttgagaaac acccgagtg actggtgggg ctgtgcttcc 1500  
 cagtgcattg tacatgtgga gatgtgaatg cctactgctt acgatatctg tataaagtgc 1560  
 tgtgtgatta aactttttt tacttgcat ttttttttt ttttttttt gttggctcat 1620  
 tagcaagaca aggtgacacc attaaacctc cctctgccat tcaaaaaaaaa aaaaaaaaaag 1680

<210> 10597  
 <211> 2035  
 <212> DNA  
 <213> Homo sapiens

<220>



Lys Lys Arg Leu Gly Phe Phe Gln Thr Tyr Asp Thr Glu Tyr Leu Lys  
 20 25 30  
 Val Gly Phe Ile Ile Cys Pro Gly Ser Lys Glu Ser Ser Pro Arg Pro  
 35 40 45  
 Gln Cys Val Ile Cys Gly Glu Ile Leu Ser Ser Glu Asn Met Lys Pro  
 50 55 60  
 Ala Asn Leu Ser His His Leu Lys Thr Lys His Ser Glu Leu Glu Asn  
 65 70 75 80  
 Lys Pro Val Asp Phe Phe Glu Gln Lys Ser Leu Glu Met Glu Cys Gln  
 85 90 95  
 Asn Ser Ser Leu Lys Lys Cys Leu Leu Val Glu Lys Ser Leu Val Lys  
 100 105 110  
 Ala Ser Tyr Leu Ile Ala Phe Gln Thr Ala Ala Ser Lys Lys Pro Phe  
 115 120 125  
 Ser Ile Ala Glu Glu Leu Ile Lys Pro Tyr Leu Val Glu Met Cys Ser  
 130 135 140  
 Glu Val Leu Gly Ser Ser Ala Gly Asp Lys Met Lys Thr Ile Pro Leu  
 145 150 155 160  
 Ser Asn Val Thr Ile Gln His Arg Ile Asp Glu Leu Ser Ala Asp Ile  
 165 170 175  
 Glu Asp Gln Leu Ile Gln Lys Val Arg Glu Ser Lys Trp Phe Ala Leu  
 180 185 190  
 Gln Ile Asp Glu Ser Ser Glu Ile Ser Asn Ile Thr Leu Leu Leu Cys  
 195 200 205  
 Tyr Ile Arg Phe Ile Asp Tyr Asp Cys Arg Asp Val Lys Glu Glu Leu  
 210 215 220  
 Leu Phe Cys Ile Glu Met Pro Thr Gln Ile Thr Gly Phe Glu Ile Phe  
 225 230 235 240  
 Glu Leu Ile Asn Lys Tyr Ile Asp Ser Lys Ser Leu Asn Trp Lys His  
 245 250 255  
 Cys Val Gly Leu Cys Thr Asp Gly Ala Ala Ser Met Thr Gly Arg Tyr  
 260 265 270  
 Ser Gly Leu Lys Ala Lys Ile Gln Glu Val Ala Met Asn Thr Ala Ala  
 275 280 285  
 Phe Thr His Cys Phe Ile His Arg Glu Arg Leu Val Ala Glu Lys Leu  
 290 295 300  
 Ser Pro Cys Leu His Lys Ile Leu Leu Gln Ser Ala Gln Ile Leu Ser  
 305 310 315 320  
 Phe Ile Lys Ser Asn Ala Leu Asn Ser Arg Met Leu Thr Ile Leu Cys  
 325 330 335  
 Glu Glu Met Gly Ser Glu His Val Ser Leu Pro Leu His Ala Glu Val  
 340 345 350  
 Arg Trp Ile Ser Arg Gly Arg Met Leu Lys Arg Leu Phe Glu Leu Arg  
 355 360 365  
 His Glu Ile Glu Ile Phe Leu Ser Gln Lys His Ser Asp Leu Ala Lys  
 370 375 380  
 Tyr Phe His Asp Glu Glu Trp Val Gly Lys Leu Ala Tyr Leu Ser Asp  
 385 390 395 400

002220" 69462960



```

agctgctgaa gcggcagcag cgaatgatca agaaccggga gtcagcctgc cagtcccgga 660
gaaagaagaa agagtatctg cagggactgg aggcctcggct gcaagcagta ctggctgaca 720
accagcagct ccgccgagag aatgctgccc tccggcggcg gctggaggcc ctgctggctg 780
aaaacagcga gctcaagtta gggctctggaa acaggaaggt ggtctgcac atggtcttcc 840
ttctcttcat tgccttcaac tttggacctg tcagcatcag tgagcctcct tcagctccca 900
tctctcctcg gatgaacaag ggggagcctc aaccccgag acacttgctg gggttctcag 960
agcaagagcc agttcaggga gttgaacctc tccaggggtc ctcccagggc ctttaaggagc 1020
cccagcccag cccacagac cagcccagtt tcagcaacct gacagccttc cctgggggagc 1080
ccaaggagct actactaaga gacctagacc agctcttccct ctctctgat tgccggcact 1140
tcaaccgcac tgagtccttg aggcttgctg acgagttgag tggctgggtc cagcgccacc 1200
agagaggccg gaggaagatc cctcagaggg cccaggagag acagaagtct cagccacgga 1260
agaagtaccc cccactgtgt ctctcgggag atgacccaac atctctattt gaaaccgtcc 1320
agatcaacgt tatccccacc tctgatgact cctcagatgt ccagaccaag atagaacctg 1380
tctctccatg ttcttccgtc aactctgagg cctccttgct ctccagccgac tctccagcc 1440
aggcttttat aggagaggag gtcctggaag tgaagacaga gtccctgtcg ccttcaggat 1500
gcctcctgtg ggatgtccca gcccctcac ttggagctgt ccagatcagc atggggccat 1560
cccttgatgg ctctcaggc aaagccctgc ccacccggaa gccgccactg cagcccaaac 1620
ctgtagtgtc aaccactgtc ccaatgccat ccagagctgt gcctccagc accacagtcc 1680
ttctgcagtc cctcgtccag ccaccccccag gtactgaaga aggagaaaag ggccgggcat 1740
gggtggctcac gccggtaatc ccagcacttt gggaggctga ggccggcgaa tcacctgagg 1800
tcagaagttt aagaccagcc tggccaacgt ggtgaaacct tgtctctact aaaaatacaa 1860
aaattagcgt ggagtgggtg caggcgcttg taatcccagc tcctcgggag gctgaggcag 1920
gagaatcact tgaaccagg agggggaggt tgcagtgagc cgagatcatg ccactgcact 1980
ccagcctggg cgacaaagcg agactttgtc tc 2012

```

<210> 10600  
 <211> 423  
 <212> PRT  
 <213> Homo sapiens

<400> 10600

Met	Pro	Gly	Asn	Ser	Cys	Pro	Pro	Glu	Val	Asp	Ala	Lys	Leu	Leu	Lys
1				5				10					15		
Arg	Gln	Gln	Arg	Met	Ile	Lys	Asn	Arg	Glu	Ser	Ala	Cys	Gln	Ser	Arg
			20					25					30		
Arg	Lys	Lys	Lys	Glu	Tyr	Leu	Gln	Gly	Leu	Glu	Ala	Arg	Leu	Gln	Ala
			35					40					45		
Val	Leu	Ala	Asp	Asn	Gln	Gln	Leu	Arg	Arg	Glu	Asn	Ala	Ala	Leu	Arg
			50				55				60				
Arg	Arg	Leu	Glu	Ala	Leu	Leu	Ala	Glu	Asn	Ser	Glu	Leu	Lys	Leu	Gly
			65				70				75				80
Ser	Gly	Asn	Arg	Lys	Val	Val	Cys	Ile	Met	Val	Phe	Leu	Leu	Phe	Ile
				85					90						95
Ala	Phe	Asn	Phe	Gly	Pro	Val	Ser	Ile	Ser	Glu	Pro	Pro	Ser	Ala	Pro
				100				105					110		
Ile	Ser	Pro	Arg	Met	Asn	Lys	Gly	Glu	Pro	Gln	Pro	Arg	Arg	His	Leu
				115				120					125		

008240 59463960

-4089/13211-

```

Leu Gly Phe Ser Glu Gln Glu Pro Val Gln Gly Val Glu Pro Leu Gln
 130                      135                      140
Gly Ser Ser Gln Gly Leu Lys Glu Pro Gln Pro Ser Pro Thr Asp Gln
145                      150                      155                      160
Pro Ser Phe Ser Asn Leu Thr Ala Phe Pro Gly Gly Ala Lys Glu Leu
                      165                      170                      175
Leu Leu Arg Asp Leu Asp Gln Leu Phe Leu Ser Ser Asp Cys Arg His
                      180                      185                      190
Phe Asn Arg Thr Glu Ser Leu Arg Leu Ala Asp Glu Leu Ser Gly Trp
                      195                      200                      205
Val Gln Arg His Gln Arg Gly Arg Arg Lys Ile Pro Gln Arg Ala Gln
210                      215                      220
Glu Arg Gln Lys Ser Gln Pro Arg Lys Lys Ser Pro Pro Leu Cys Leu
225                      230                      235                      240
Leu Gly Asp Asp Pro Thr Ser Ser Phe Glu Thr Val Gln Ile Asn Val
                      245                      250                      255
Ile Pro Thr Ser Asp Asp Ser Ser Asp Val Gln Thr Lys Ile Glu Pro
                      260                      265                      270
Val Ser Pro Cys Ser Ser Val Asn Ser Glu Ala Ser Leu Leu Ser Ala
275                      280                      285
Asp Ser Ser Ser Gln Ala Phe Ile Gly Glu Glu Val Leu Glu Val Lys
290                      295                      300
Thr Glu Ser Leu Ser Pro Ser Gly Cys Leu Leu Trp Asp Val Pro Ala
305                      310                      315                      320
Pro Ser Leu Gly Ala Val Gln Ile Ser Met Gly Pro Ser Leu Asp Gly
                      325                      330                      335
Ser Ser Gly Lys Ala Leu Pro Thr Arg Lys Pro Pro Leu Gln Pro Lys
                      340                      345                      350
Pro Val Val Leu Thr Thr Val Pro Met Pro Ser Arg Ala Val Pro Pro
355                      360                      365
Ser Thr Thr Val Leu Leu Gln Ser Leu Val Gln Pro Pro Pro Gly Thr
370                      375                      380
Glu Glu Gly Glu Lys Gly Arg Ala Trp Trp Leu Thr Pro Val Ile Pro
385                      390                      395                      400
Ala Leu Trp Glu Ala Glu Ala Gly Glu Ser Pro Glu Val Arg Ser Leu
                      405                      410                      415
Arg Pro Ala Trp Pro Thr Trp
                      420

```

<210> 10601  
 <211> 1562  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (94).. (1461)

00629469.072800







<210> 10603  
<211> 1962  
<212> DNA  
<213> Homo sapiens

<400> 10603

```
tgttttagtat gaaaagtatg ttttcatttt gcagatcctt ttctctctgc tccataaaat 60
gttatataaa acattctctt tatttctgtt aattttgata gtatgctact gtactaaagc 120
tgaacaatat aagtattgtc ccttctgttt atagacatgt ataggacacc ttcagcaggc 180
aaggccttat cctagggcca ggaatgtgaa gatgaatgag ctaaccaagc cccacctcgc 240
tgcccacaat gggggccaccg ctactacta agtctaagcc ctacagagatt tgccttggtg 300
ttaagaaatg catcagaggc atgcctaact tgaaccaaag caagcatctg ttcttattta 360
aacctagtaa ttgtttcttt acaaattgtg gagaaactta ggacaaatga acctcaaact 420
agatggtttg gagcaaatac catggaagta atttgaagac catattctct tcattgtcac 480
attgacattc acctgtataa atcatgatac tcttttctgc catagaacca tttcttaaat 540
tcgcatttca tgattgtaag gtggtggtct cactgacact tgtcatggtg ggttggtgga 600
gaggaccggg ggtgggaatc acggcagacc cagtctgtct gcaacagcgg agcctttgga 660
gggtgctcaa ggaaacactg gtagaaatgg agggaccaac tgaaggaaaa ttttgaattc 720
aaaattgaag agtttggttc tgtgtttccc ataatatgct tgataggaga agcaaccttt 780
gtaactggct gtgaaatcag aatacatctt ggagtctctt tacaccccca ggggcccttt 840
caaatccata cgatttagaa gtttcaactga gtgatgggtt tggtttatta cggctttgtc 900
aaaccaagct aaacaaattt ggcatgggat ctgtacagtc tgttgtgcag tgattgtgta 960
acaccagctt cttgtccagt tctactgtac aagtaactgat agaccaaggt ttaagtatgt 1020
ttacgttttg acattacatg atattttgta gtaataataa tgccaaaata ttcttaaacg 1080
ccttctgtat agaaactttg gtaaagcaag gccagggtgcg gtggctcaca cctgtaatcc 1140
cagcactttg ggaggccaaa gcagggtgat cacttgagat caggagtcca agaccagcct 1200
gaccaacatg gtgaaacctt ctctctacta aaaatacaaa attagagcca ggcgcagtgg 1260
ctcacgcctg taatcccagc actttgggaa gccgaagtaa gtggatcact tgaggtcagg 1320
agttggagac cagcctggcc aacataggga aacctgtct ctactaaaaa tacaaaaatt 1380
agctgggtgt ggcagcgggc atctgtaatc ccagctactc aggaggctga ggcacaagaa 1440
tcgcttgaa ccaggaggcg gaggttgtag tgagccgaga tcgcgccatt gcactccagc 1500
ctgggtgaca gagggagact ctgtctccga aaaacaaaca caaccatact cttaggaagt 1560
tttaccaaaag attttgtaaa tatcctgtat ttatttccca tgaagtgtat tatttcttca 1620
atattaccaa tgcaagttaa cacgggcctt ccttatagtg gtcatatctc tgcttttgaa 1680
ctagcaaaat cagcatgagt gtgatttttg aatagataga ttctgtgaa atgcagcaaa 1740
tcccatataa gaaatcttag cagtagaata tgaatatcaa attgcaaaaa agcagttatg 1800
tctaaatatg cagcccaaag tttttcttaa tatctgtaga tacaggccag gcacagtggc 1860
tcacgcctgt agtcccagca ctttgggaag ctgagaaggg tggatcactt gagcccagga 1920
gtttgagacc agtggggcaa catggtgaaa ccccatctct ac 1962
```

<210> 10604  
<211> 2344  
<212> DNA  
<213> Homo sapiens

<220>

<221> CDS  
<222> (315).. (698)

<400> 10604

tactagatgg	acaggctgag	gtgttttgga	gtgatgatga	ccacattcag	tttgtgcaga	60
aaaagccacc	acgtgagaat	ggccataagc	agataagtag	cagttcaact	ggatgtctct	120
cttctccaaa	tgctacagta	caaagcccta	agcatgagtg	gaaaatcgtt	gcttcagaaa	180
agacttcaaa	taacacttac	tttgtccctg	ctgtgctgga	tggtatatc	tgtgtcattt	240
ttcttcatgg	gagaaacagc	ccacagagct	caccaacaag	tactccaaaa	ctaagtaaga	300
gtttaagctt	tgagatgcaa	caagatgagc	taatcgaaaa	gcccattgtc	cctatgcagt	360
acgcacgata	tggtctggga	acagcagaga	tgaatggcaa	actcatagct	gcaggtggct	420
ataacagaga	ggaatgtctt	cgaacagctg	aatgctataa	tccacataca	gatcactggg	480
cctttcttgc	tcccatgaga	acaccaagag	cccgatttca	aatggctgta	ctcatggggc	540
agctctatgt	ggtaggtgga	tcaaattggc	actcagatga	cctgagttgt	ggagagatgt	600
atgattcaaa	catagatgac	tggattcctg	ttccagaatt	gagaactaac	cgttgtaattg	660
caggagtgtg	tgctctgata	catatgggtc	aaaaggactg	aaaaattgtg	atgtatttga	720
tcctgttaaca	aagttgtgga	caagctgtgc	ccctcttaac	attcggagac	accagtctgc	780
agtctgtgag	cttggcgggt	atttgtacat	aatcggagggt	gcagaatctt	ggaattgtct	840
gaacacagta	gaacgataca	atcctgaaaa	taatacctgg	actttaattg	cacccatgaa	900
tgtggctagg	cgaggagctg	gagtggctgt	tcttaattga	aaactgtttg	tatgtgggtg	960
ctttgatggg	tctcatgcc	tcagttgtgt	ggaaatgtat	gatccaaact	gaaatgaatg	1020
gaagatgatg	ggaaatatga	cttcaccaag	gagcaatgct	gggattgcaa	ctgtagggaa	1080
caccatttat	gcagtgggag	gattcgatgg	caatgaattt	ctgaatacgg	tggaagtcta	1140
taaccttgag	tcaaataaat	ggagccccta	tacaaagatt	ttccagtttt	aacaaattta	1200
agaccctctc	aaactaacag	gcttagtgat	gtaattatgg	ttagcagagg	tacacttggt	1260
aataaagagg	gtgggtgggt	atagatgttg	ctaacagcaa	cacaaagctt	ttgcatattg	1320
catattatta	aacatgctgt	acatactttt	tgggtttatt	tggaaaggaa	tgcaaagatg	1380
aaggctctgt	ttgtgtactt	ttaagacttt	ggttattttt	ctttttggaa	aagaataaac	1440
caagaattga	ttgggacat	catttcaaga	agtcacctct	cctccacatt	tgttttgcca	1500
atttgcacat	taaatgactc	ttccctcaaa	tgtgtactat	ggggtaaaag	gggtaggggt	1560
taaagatgta	gacagttggg	tttttttaag	ggcccttctt	caataactgg	aacactctat	1620
aacaaaggat	acttatitaa	atagatgaca	ttgactatit	ttgtttttat	taaaagggaag	1680
cttacatgcc	taccaatatt	taatctttta	tgattgcctt	tttataactt	tttatattct	1740
cagcagagtg	ctttaccaat	tgaagtaaaa	tgtggcaggc	tggagttatt	gaagcagagt	1800
ggcagtcctc	agtttgacga	gtaggggtct	gtctttttaa	ctctgagtgc	aaacttcaga	1860
gttcttgcct	tggctgcagt	ttttttcctt	caagaatgca	gtactaacat	ttatttgagt	1920
ggagttactg	aacagtaaca	tagctgtgat	ttttgggtatt	tgaacactg	gttttaaaata	1980
ttttgacttg	ttgagggtat	gttttatata	gcaagacatt	atatagcagt	aaaaaatggg	2040
gttttatctt	ctatataatt	cctgttttta	ttattaacaa	aacagtccta	aatagcagcc	2100
ctcaattgtg	aaaaaatit	ctttaaacta	cattaggttg	tgaatgcagg	ttttatcaga	2160
actatgtttt	tgttcagttt	atctgttcat	atggataaat	attggttggg	atgacttggg	2220
gtctaattgt	tagtgctaca	cacctaaact	atggggccaa	aatagcatgt	cctaagtctt	2280
gctgctgatt	taaacacatt	aaagggtact	tgcaggaaat	ccttgcacca	tgggattaat	2340
atcc						2344

<210> 10605  
<211> 128

009270" 69462960

<212> PRT

<213> Homo sapiens

<400> 10605

Met	Gln	Gln	Asp	Glu	Leu	Ile	Glu	Lys	Pro	Met	Ser	Pro	Met	Gln	Tyr
1				5				10					15		
Ala	Arg	Ser	Gly	Leu	Gly	Thr	Ala	Glu	Met	Asn	Gly	Lys	Leu	Ile	Ala
			20					25					30		
Ala	Gly	Gly	Tyr	Asn	Arg	Glu	Glu	Cys	Leu	Arg	Thr	Val	Glu	Cys	Tyr
			35				40					45			
Asn	Pro	His	Thr	Asp	His	Trp	Ser	Phe	Leu	Ala	Pro	Met	Arg	Thr	Pro
	50					55					60				
Arg	Ala	Arg	Phe	Gln	Met	Ala	Val	Leu	Met	Gly	Gln	Leu	Tyr	Val	Val
65				70					75					80	
Gly	Gly	Ser	Asn	Gly	His	Ser	Asp	Asp	Leu	Ser	Cys	Gly	Glu	Met	Tyr
			85					90					95		
Asp	Ser	Asn	Ile	Asp	Asp	Trp	Ile	Pro	Val	Pro	Glu	Leu	Arg	Thr	Asn
		100					105					110			
Arg	Cys	Asn	Ala	Gly	Val	Cys	Ala	Leu	Ile	His	Met	Val	Lys	Lys	Asp
		115				120						125			

<210> 10606

<211> 1534

<212> DNA

<213> Homo sapiens

<400> 10606

aggaagtc	atgccatacagg	aagccatcag	aagttgcctg	gtaaggattt	aagaaaaaag	60
gaattaagt	gttatttggg	tcataaattt	tagggcatca	ggttatgggt	atctgatgta	120
tttatattaa	taattacagc	ttaccatggg	ccagtcactc	ttttaaatgc	cacagcaa	180
ttatgaagta	ggatatatta	ttatcctcat	ttgcacatga	ggaaactgtg	cacaaagacg	240
ttaaatggac	tgccaaaaat	cctaaagcta	gtaagtgcc	gtaccagtat	tcaaacctag	300
gcagtctagc	tcttaaccgc	tatactatat	cttccattga	aatggacagc	tggttatttt	360
gactaaatat	cctaagatat	gtttggaagg	gaattacat	cactgacctc	ttaaattctcc	420
tttttctgta	cttccaagct	gatcaactct	ttttttgtga	aagactcaaa	ttgttgtgtt	480
gtattacatg	aatcgatata	tgggataatt	gctaaacatt	atagacctga	gagtcattct	540
atctctttta	gaaatctttt	tctttattcc	ataatggata	atgacaaatt	caaaaagcttt	600
aggaagtagg	cagataacat	aagtgaggga	gatggcttgg	tataagtcaa	tttgaaatgg	660
cgagaactgt	ggcaaaccac	tactcactcg	tcacttggct	ccagctgctc	tgtgcaa	720
tggatccaat	gttatcagat	attttaaggc	caggaatggg	ggcttatgcc	tataatccca	780
gcactttggg	aggccaaggt	gggaggattg	cttgagccta	ggagtttgag	acctgcctgg	840
gcaacacagt	gagaccttgt	ctctaccaa	aaaaaaaaa	cattagcgac	atgtggtggc	900
atgtgcctgt	agttccagct	acttgggagg	gtgaagtggg	aagattgctt	gagttcagga	960
ggtcaaggct	gcagtgagct	atggttgtgc	cacagcactc	cagcctgggt	gacaaagcaa	1020
gactctgtct	caaaaaaaaa	aaaaaaaaa	atatttgaaa	ttttacctta	agggttaagtt	1080
attacctctg	caaatagctc	atttcttcat	cgtctgtttt	actctattca	gtttcagaga	1140
gagaccacag	tcttgacttt	attttcaagt	tctgtgaatc	cattattttt	agagctttta	1200

00629469.072800

cctctttaca	gtctccatgt	atatattcaa	taatgtaaaa	tatgttaaca	gttcattggt	1260
tggactgtgt	cctttttaca	gacaattgac	tatataaaaag	gctgaagggc	ttttccagta	1320
tatccctagt	actacaaagt	acgttttgga	gtcagacaaa	tctgagtttg	aattctgttt	1380
ctgagacatt	aacttgtaat	ttcagcaaga	tgttttttct	tcatctgtac	aatagggtta	1440
cttatacctc	ctaattagat	gaggattaaa	tatatataaa	tacactgatc	atagcagctg	1500
tcatatgcaa	attctgcagc	aaacaaaaaa	aaag			1534

<210> 10607  
<211> 1456  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (272)..(1054)

<400> 10607		
tcggttaaaa	gccagaagtt atgagcttca ggaaagcaat gtacggotga agttaaccat 60	
tggtgacacc	gtgggatttg gagaccagat aaataaagat gacagctata agccgatagt 120	
agaatatatt	gatgccagtt tccgagccta cctgcaagag gaattgaaga ttaaactgtc 180	
tctcttcaac	taccatgaca cgaggatcca tgcctgcctc taatttattg cccctactgg 240	
acattcacta	aagtccctgg atctggtcac catgaaaaag ctggacagta aggtgaacat 300	
cattccaata	attgcaaaaag ctgacaccat tgccaagaat gaactgcaca aattcgagag 360	
taagatcatg	agtgaactgg tcagcaatgg ggtccagata tatcagtttc ccactgatga 420	
agaaacgggtg	gcagagatta acgcaacaat gagtgtccat ctcccatttg cagtgggttg 480	
cagcaccgaa	gaggtgaaga ttggcaacaa gatggcaaaag gccaggcagt acccctgggg 540	
tgtggtgcag	gttgagaatg aaaatcattg cgattttgtg aaacttcgag agatgctgat 600	
ccgcgtgaac	atggaggact tgcgagagca gactcacacc cgccactatg aattgtaccg 660	
acgtgttaag	cttgaagaga tggggttcaa ggacactgac cctgacagca aacccttcag 720	
tcttcaggag	acatatgaag caaaaaggaa tgaattcctg ggagaactgc agaagaaaga 780	
agaagaaatg	agacaaatgt ttgttatgag agtgaaggag aaagaagctg aacttaagga 840	
ggcagaggaa	gagcttcacg agaagtttga ctttctaaag cggacacacc aagaagaaaa 900	
gaagaaaagt	gaagacaaga agaaggagct tgaggaggag gtgaacaact tccagaagaa 960	
gaaagcagcg	gctcagttac tacagtccca ggcccagcaa tctggggccc agcaaaccaa 1020	
gaaagacaag	gataagaaaa atgcaagctt cacataaagc ctggcaagcc aaggatgttc 1080	
ccgcattcac	ctgcttttgc agtaatatcg tatctctgcc atgtgtgttc tttagtttta 1140	
ttttatttta	ttttattttt ttacccttcc tcaaacacca gtaactatta ttaactcgtt 1200	
ttgctgaatg	ttgttgggtg gtagaaaatg atagaacaag ggaataaccg cgaatgctct 1260	
gtgcagctgg	actctgtttc cggaaagtaa atgatttgct ttttatgcct gtcttgaatg 1320	
gcagcacgaa	gcaggcctgt tacttgtatg tgcctttgga cagaggaaaag tggggtaaaa 1380	
tgtacctgt	acgtctgaca tgaaaacttc tcaccgcctc agcagctgaa ctaaaaacct 1440	
gaatagccat	gacaag	1456

<210> 10608  
<211> 261  
<212> PRT

<213> Homo sapiens

<400> 10608

Met Lys Lys Leu Asp Ser Lys Val Asn Ile Ile Pro Ile Ile Ala Lys  
1 5 10 15  
Ala Asp Thr Ile Ala Lys Asn Glu Leu His Lys Phe Glu Ser Lys Ile  
20 25 30  
Met Ser Glu Leu Val Ser Asn Gly Val Gln Ile Tyr Gln Phe Pro Thr  
35 40 45  
Asp Glu Glu Thr Val Ala Glu Ile Asn Ala Thr Met Ser Val His Leu  
50 55 60  
Pro Phe Ala Val Val Gly Ser Thr Glu Glu Val Lys Ile Gly Asn Lys  
65 70 75 80  
Met Ala Lys Ala Arg Gln Tyr Pro Trp Gly Val Val Gln Val Glu Asn  
85 90 95  
Glu Asn His Cys Asp Phe Val Lys Leu Arg Glu Met Leu Ile Arg Val  
100 105 110  
Asn Met Glu Asp Leu Arg Glu Gln Thr His Thr Arg His Tyr Glu Leu  
115 120 125  
Tyr Arg Arg Cys Lys Leu Glu Met Gly Phe Lys Asp Thr Asp Pro  
130 135 140  
Asp Ser Lys Pro Phe Ser Leu Gln Glu Thr Tyr Glu Ala Lys Arg Asn  
145 150 155 160  
Glu Phe Leu Gly Glu Leu Gln Lys Lys Glu Glu Glu Met Arg Gln Met  
165 170 175  
Phe Val Met Arg Val Lys Glu Lys Glu Ala Glu Leu Lys Glu Ala Glu  
180 185 190  
Glu Glu Leu His Glu Lys Phe Asp Leu Leu Lys Arg Thr His Gln Glu  
195 200 205  
Glu Lys Lys Lys Val Glu Asp Lys Lys Lys Glu Leu Glu Glu Glu Val  
210 215 220  
Asn Asn Phe Gln Lys Lys Lys Ala Ala Ala Gln Leu Leu Gln Ser Gln  
225 230 235 240  
Ala Gln Gln Ser Gly Ala Gln Gln Thr Lys Lys Asp Lys Asp Lys Lys  
245 250 255  
Asn Ala Ser Phe Thr  
260

<210> 10609

<211> 1464

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (185).. (1462)

00629469.07300

<400> 10609

```

ttgcggggag ggcccagagt cgtgtgtcc ggggcagagc ggccggttcg tcccagagtct 60
gcgctctttc gggtcogctg ctgtgtcccg gtccgctctc ctcagcatga ggggcccgtta 120
ggagtgaggt ttcacoggtt ccctcgcaact ggaggaggca gcggccgctt cggcagcgac 180
agctatggcg gtagagacgc gggcagagct ggtgggtaag cggttcctgt gtgtggcgggt 240
cggcgacgag gcacgttcgg agcgttgga gagcggacgc ggctggcgaa gctggcgagc 300
gggggtcatc cgagccgtgt cacacaggga cagccgcaat ccggacctgg cgggtgtatgt 360
ggaatttgat gatcttgaat gggataaacg agagtgggtt aaagtttatg aagatttttc 420
aactttcttg gtggaatacc acttaatctg ggccaaaagg aatgacccta gccagactca 480
gggatcaaag agcaaacaga ttcagtggcc tgcattgact ttcaaacctc tggttgaaag 540
aaatataccc agttcagtca ctgcagtaga attccttgta gataagcaac tggatttttt 600
aactgaagat agtgcctttc agccctacca ggacgacata gacagcctaa acccagttct 660
cagggacaac ccgcagcttc atgaggaagt gaaagtctgg gtaaaggaaac aaaaggttca 720
ggagattttt atgcaaggtc cttattcctt aaatggatac agagtgagag tatatagaca 780
agactctgcc acccagtggg ttactggcat aattactcat catgatctct tcaccgcgac 840
catgatcgtt atgaatgatc aggtactaga accacagaat gtcgatcctt ctatggttca 900
aatgaccttt ctagatgatg ttgttcaact tttgttaaaa ggtgaaaata ttggcattac 960
atcacgacgc aggtctcgtg ccaatcaaaa cgtcaacgct gttcacagcc attatacacg 1020
tgcccaagca aatagtccca gaccagcaat gaactcccaa gctgctgtac caaaacagaa 1080
tacacaccag caacagcaac aaagaagtat ccgtccgaat aagaggaagg gctcagatag 1140
cagtatacca gatgaagaga agatgaagga ggaaaaatat gattatatat cacgaggaga 1200
aaatcctaaa ggtaaaaaca aacacttgat gaataaaaaga aggaaacctg aggaggatga 1260
aaagaaacta aatatgaaaa gacttcgaac tgacaatgtt tcagactttt ctgagagcag 1320
tgactcagaa aattcaaata agagaataat agataattcc tcagaacaga agccagagaa 1380
tgaattgaaa aataaaaaata cttcaaaaat aaatggagaa gaaggaaaac ccataataa 1440
tgagaaggca ggagaagaga ccct                                     1464

```

<210> 10610

<211> 426

<212> PRT

<213> Homo sapiens

<400> 10610

```

Met Ala Val Glu Thr Arg Ala Glu Leu Val Gly Lys Arg Phe Leu Cys
  1           5           10           15
Val Ala Val Gly Asp Glu Ala Arg Ser Glu Arg Trp Glu Ser Gly Arg
          20           25           30
Gly Trp Arg Ser Trp Arg Ala Gly Val Ile Arg Ala Val Ser His Arg
          35           40           45
Asp Ser Arg Asn Pro Asp Leu Ala Val Tyr Val Glu Phe Asp Asp Leu
          50           55           60
Glu Trp Asp Lys Arg Glu Trp Val Lys Val Tyr Glu Asp Phe Ser Thr
          65           70           75           80
Phe Leu Val Glu Tyr His Leu Ile Trp Ala Lys Arg Asn Asp Pro Ser
          85           90           95
Gln Thr Gln Gly Ser Lys Ser Lys Gln Ile Gln Trp Pro Ala Leu Thr
          100          105          110

```

009220.696296



Phe Lys Pro Leu Val Glu Arg Asn Ile Pro Ser Ser Val Thr Ala Val  
 115 120 125  
 Glu Phe Leu Val Asp Lys Gln Leu Asp Phe Leu Thr Glu Asp Ser Ala  
 130 135 140  
 Phe Gln Pro Tyr Gln Asp Asp Ile Asp Ser Leu Asn Pro Val Leu Arg  
 145 150 155 160  
 Asp Asn Pro Gln Leu His Glu Glu Val Lys Val Trp Val Lys Glu Gln  
 165 170 175  
 Lys Val Gln Glu Ile Phe Met Gln Gly Pro Tyr Ser Leu Asn Gly Tyr  
 180 185 190  
 Arg Val Arg Val Tyr Arg Gln Asp Ser Ala Thr Gln Trp Phe Thr Gly  
 195 200 205  
 Ile Ile Thr His His Asp Leu Phe Thr Arg Thr Met Ile Val Met Asn  
 210 215 220  
 Asp Gln Val Leu Glu Pro Gln Asn Val Asp Pro Ser Met Val Gln Met  
 225 230 235 240  
 Thr Phe Leu Asp Asp Val Val His Ser Leu Leu Lys Gly Glu Asn Ile  
 245 250 255  
 Gly Ile Thr Ser Arg Arg Arg Ser Arg Ala Asn Gln Asn Val Asn Ala  
 260 265 270  
 Val His Ser His Tyr Thr Arg Ala Gln Ala Asn Ser Pro Arg Pro Ala  
 275 280 285  
 Met Asn Ser Gln Ala Ala Val Pro Lys Gln Asn Thr His Gln Gln Gln  
 290 295 300  
 Gln Gln Arg Ser Ile Arg Pro Asn Lys Arg Lys Gly Ser Asp Ser Ser  
 305 310 315 320  
 Ile Pro Asp Glu Glu Lys Met Lys Glu Glu Lys Tyr Asp Tyr Ile Ser  
 325 330 335  
 Arg Gly Glu Asn Pro Lys Gly Lys Asn Lys His Leu Met Asn Lys Arg  
 340 345 350  
 Arg Lys Pro Glu Glu Asp Glu Lys Lys Leu Asn Met Lys Arg Leu Arg  
 355 360 365  
 Thr Asp Asn Val Ser Asp Phe Ser Glu Ser Ser Asp Ser Glu Asn Ser  
 370 375 380  
 Asn Lys Arg Ile Ile Asp Asn Ser Ser Glu Gln Lys Pro Glu Asn Glu  
 385 390 395 400  
 Leu Lys Asn Lys Asn Thr Ser Lys Ile Asn Gly Glu Glu Gly Lys Pro  
 405 410 415  
 His Asn Asn Glu Lys Ala Gly Glu Glu Thr  
 420 425

<210> 10611

<211> 1547

<212> DNA

<213> Homo sapiens

<220>

000220"69462960

<221> CDS

<222> (303).. (1472)

<400> 10611

```

aagacctctt agaccagctc ttgtccatca tttgctgaag tggaccaact agttccccag 60
taggggggtct cccctggcaa ttcttgatcg gcgtttggac atctcagatc gcttccaatg 120
aagatggcct tgccttgggg tcctgcttgt ttcataatca tctaactatg ggacaagggt 180
gtgccggcag ctctggggga aggagcacgg ggctgatcaa gccatccagg aaacactgga 240
ggacttgtcc agccttgaaa gaactctagt ggtttctgaa tctagccac ttggcggtaa 300
gcatgatgca acttctgcaa cttctgctgg ggcttttggg gccagggtggc tacttatttc 360
tttagggga ttgtcaggag gtgaccactc tcacggtgaa ataccaagtg tcagaggaag 420
tgccatctgg tacagtgatc gggaagctgt cccaggaact gggccgggag gagaggcgga 480
ggcaagctgg ggccgccttc cagggtgttg agctgcctca ggogctcccc attcagggtg 540
actctgagga aggcttgcct agcacaggca ggoggttgga tcgagagcag ctatgccgac 600
agtgggatcc ctgcctgggt tcctttgatg tgcttgccac aggggatttg gctctgatcc 660
atgtggagat ccaagtgtct gacatcaatg accaccagcc acggtttccc aaaggcgagc 720
aggagctgga aatctctgag agcgctctc tgcgaacccg gatccccctg gacagagctc 780
ttgaccaga cacaggccct aacaccctgc acacctacac tctgtctccc agtgagcact 840
ttgccttgga tgtcattgtg ggccctgatg agacaaaaca tgcagaactc atagtgggtg 900
aggagctgga cagggaaatc cattcatttt ttgatctggt gttaactgcc tatgacaatg 960
ggaaccccc caagtcaggt accagcttgg tcaagggtcaa cgtcttggac tccaatgaca 1020
atagccctgc gtttgctgag agttcactgg cactggaaat ccaagaagat gctgcacctg 1080
gtacgcttct cataaaactg accgccacag accctgacca agggcccaat ggggaggtg 1140
agttcttct cagtaagcac atgcctccag aggtgctgga caccttcagt attgatgcca 1200
agacaggcca ggtcattctg cgtcgacctc tagactatga aaagaacct gcctacgagg 1260
tggtgttca ggcaagggac ctgggtccca atcctatccc agccattgc aaagtctca 1320
toaaggttct ggatgtcaat gacaacatcc caagcatcca cgtcacatgg gcctccagc 1380
catcactggg gtcagaagct cttcccaagg acagttttat tgctcttgtc atggcagatg 1440
acttggattc aggaaaggat ggcttcttg ggtagcagga gtcagggggc tgtaccctgg 1500
gggtgccagg aaatgctctc tgacctatca ataaaggaaa agcagtg 1547

```

<210> 10612

<211> 390

<212> PRT

<213> Homo sapiens

<400> 10612

```

Met Met Gln Leu Leu Gln Leu Leu Leu Gly Leu Leu Gly Pro Gly Gly
 1             5             10             15
Tyr Leu Phe Leu Leu Gly Asp Cys Gln Glu Val Thr Thr Leu Thr Val
          20             25             30
Lys Tyr Gln Val Ser Glu Glu Val Pro Ser Gly Thr Val Ile Gly Lys
          35             40             45
Leu Ser Gln Glu Leu Gly Arg Glu Glu Arg Arg Arg Gln Ala Gly Ala
          50             55             60
Ala Phe Gln Val Leu Gln Leu Pro Gln Ala Leu Pro Ile Gln Val Asp
          65             70             75             80

```

-4100/13211-

Ser	Glu	Glu	Gly	Leu	Leu	Ser	Thr	Gly	Arg	Arg	Leu	Asp	Arg	Glu	Gln
				85					90					95	
Leu	Cys	Arg	Gln	Trp	Asp	Pro	Cys	Leu	Val	Ser	Phe	Asp	Val	Leu	Ala
			100					105					110		
Thr	Gly	Asp	Leu	Ala	Leu	Ile	His	Val	Glu	Ile	Gln	Val	Leu	Asp	Ile
		115					120					125			
Asn	Asp	His	Gln	Pro	Arg	Phe	Pro	Lys	Gly	Glu	Gln	Glu	Leu	Glu	Ile
	130					135					140				
Ser	Glu	Ser	Ala	Ser	Leu	Arg	Thr	Arg	Ile	Pro	Leu	Asp	Arg	Ala	Leu
145					150					155					160
Asp	Pro	Asp	Thr	Gly	Pro	Asn	Thr	Leu	His	Thr	Tyr	Thr	Leu	Ser	Pro
			165					170						175	
Ser	Glu	His	Phe	Ala	Leu	Asp	Val	Ile	Val	Gly	Pro	Asp	Glu	Thr	Lys
			180					185					190		
His	Ala	Glu	Leu	Ile	Val	Val	Lys	Glu	Leu	Asp	Arg	Glu	Ile	His	Ser
	195						200					205			
Phe	Phe	Asp	Leu	Val	Leu	Thr	Ala	Tyr	Asp	Asn	Gly	Asn	Pro	Pro	Lys
	210					215					220				
Ser	Gly	Thr	Ser	Leu	Val	Lys	Val	Asn	Val	Leu	Asp	Ser	Asn	Asp	Asn
225					230					235					240
Ser	Pro	Ala	Phe	Ala	Glu	Ser	Ser	Leu	Ala	Leu	Glu	Ile	Gln	Glu	Asp
			245					250						255	
Ala	Ala	Pro	Gly	Thr	Leu	Leu	Ile	Lys	Leu	Thr	Ala	Thr	Asp	Pro	Asp
			260					265					270		
Gln	Gly	Pro	Asn	Gly	Glu	Val	Glu	Phe	Phe	Leu	Ser	Lys	His	Met	Pro
		275					280					285			
Pro	Glu	Val	Leu	Asp	Thr	Phe	Ser	Ile	Asp	Ala	Lys	Thr	Gly	Gln	Val
	290					295						300			
Ile	Leu	Arg	Arg	Pro	Leu	Asp	Tyr	Glu	Lys	Asn	Pro	Ala	Tyr	Glu	Val
305					310					315					320
Asp	Val	Gln	Ala	Arg	Asp	Leu	Gly	Pro	Asn	Pro	Ile	Pro	Ala	His	Cys
			325					330						335	
Lys	Val	Leu	Ile	Lys	Val	Leu	Asp	Val	Asn	Asp	Asn	Ile	Pro	Ser	Ile
			340					345					350		
His	Val	Thr	Trp	Ala	Ser	Gln	Pro	Ser	Leu	Val	Ser	Glu	Ala	Leu	Pro
		355					360					365			
Lys	Asp	Ser	Phe	Ile	Ala	Leu	Val	Met	Ala	Asp	Asp	Leu	Asp	Ser	Gly
	370					375					380				
Lys	Asp	Gly	Leu	Leu	Gly										
385					390										

<210> 10613

<211> 2570

<212> DNA

<213> Homo sapiens

<400> 10613

000220" 69462960

09629469.072800

attaaaatga	gaaatacata	agatgataaa	taaaatgaag	gtgaagggtat	tccagatcta	60
ccgaaaagat	tttcagtatc	acagattatt	cataagaaat	tgagaaaagg	aacaatcaga	120
agttgcaaaa	gatggtatag	ccgaatataa	tggaaatagg	aaaaattagt	cgaaaataaa	180
ggttgattta	gaaatgaaga	aaatgaatat	atttcttaat	acaaaaataag	tgggaaatga	240
gaagttatac	caataaaaag	catttacaaa	tttaggggat	attgtaaccc	agtataat	300
tctgacaggt	tggactttga	ccctaattgga	cttactgggtg	aactttttca	aatgttttaa	360
taatgtctat	ccatgtatca	tgaaggacag	tatgcttcaa	attgtctttt	gaggcagaca	420
tgttctcagt	actaaaagac	atTTTTtagaa	ggatttttatt	ctcaacagat	gcaaaatgca	480
aaataaaata	ttgacaaaca	atacagcaac	aaataattta	ctatcactca	ggattataag	540
gctggtgtta	agcagaacag	ccattaaatc	agcatcaaaa	gaacaaatag	taaaatccaa	600
agtattaatt	acagataact	tttcaaaaat	tcatcattca	cccttgattt	aattatttct	660
ctggcaatta	tttaatagac	ttctcggagt	ctgttaagta	cttaaaccac	gaactacat	720
tattcctact	gggaaaacat	aaacatttct	caagtggaaa	gtaaacagtg	ttggcactat	780
ttttatatat	ggttaaagag	acctgtcatt	gcaataaaaag	ccagcattca	caaaatgagg	840
aagataagga	aagtagcata	aatattttct	attaacatgg	ctttacaact	gctaaaactt	900
atagtataaa	aatgtactaa	caaagactaa	ttcaagaagt	tgcaggatac	acaattttta	960
aaaatctcat	ttctacatct	tagcagtgac	aaactgcaat	ttaaaaagtg	tgtttggtta	1020
ttaatatata	tgagactttt	aaagaaagtt	atataactac	atagagataa	attaagaaag	1080
atgcctaaat	agaagcaagt	ttaaagagct	atatttttaa	acatgaacaa	actcccatgg	1140
gagccatgcc	agtgtagtgg	aaaagtagta	catggggaga	tggggagttt	ttttgaaaac	1200
cagaattaca	gttctcattt	cactacttac	cagttgtata	ctottgggaa	agtcaactcct	1260
agtatctatt	tcaccatcta	cagaagagaa	atacttcaca	gaattattgt	ggggattaag	1320
ttagataatg	tgttttaaaa	tataaagcta	catccaaaga	aatgccaata	tgtgacatta	1380
gtatgaaatt	tactacagtt	ccatttaaca	ttccaactgg	ttgotgtgtg	gaatatggca	1440
taattgtaat	aaattattta	ggaaagcaag	caaagatgta	agttttttta	atttaggggg	1500
aaaaaatggg	agccttgctc	tccaaatcct	taaaacatgc	tattaagcaa	cctttctgaa	1560
tattctgtgg	tgccaagtag	aaagtttaac	tgaattaat	aagccaatgg	aaagaaagaa	1620
atattaataa	ctgctggtgg	aaagactagc	tagatgtcag	tgtggaaaga	ttagatccac	1680
tttcatgtg	atattccaaa	tgaattaaaa	tgtaagtat	aaaaagaaaa	atactacaag	1740
tctcacacca	atagtgggtat	aaaggaactt	catggcaatt	ggcaaggtag	atcaactaag	1800
agaaaaagtt	ttaaatgtgt	agtaaataag	aaaaagacaa	aacaagatgg	aattttaaag	1860
aagctatttg	cattacacat	ggatgcactc	agtttttgta	aaactatatg	catatccata	1920
ggggtttgta	ctcttaggca	aattttataaa	gcgatcgtgt	ataaatgata	taaaaaatca	1980
atttgaatgg	tattcaaatt	tcctaataatt	aaaaatgcaa	ctttgactta	gttcatgcta	2040
ttgtattagc	aaaactgttt	taattgcatg	tgtccttata	gcagcagcat	tgtgtattag	2100
tagcctttta	agagaactgt	gtagaagact	ataaaaaggg	ctttataact	gatcttttga	2160
catactcact	ttgagtggca	tatgcccagg	aaaatattta	aaagaaagaa	aagctatttg	2220
tacaaaagttt	tctagcagtt	ccactcagat	aactttaagg	gggaaaaaag	cccaacgatt	2280
ggaaatgggt	aagtaaattt	tgggtgtattg	ctagtgtctat	cacagaatgt	tatatagcca	2340
ttcaataata	ttgatatatg	tcaaattgta	tgcaaaaaag	tgagattcaa	aaatgttaat	2400
aagaacataa	attgtgttta	ctgatacatg	tgaaaattta	ggtctacatt	gaaaagaatc	2460
agaagataac	atgttaattca	gtttaacatt	aggggttctt	tatttttctt	ctgttaaata	2520
ttgatgtatg	caataaaaaa	taaaagatta	attggtaaag	tggtttactg		2570

<210> 10614

<211> 1855

<212> DNA

<213> Homo sapiens

<400> 10614

agagacgcca gaggtgcagc tccagcagca atggcagtga cggcgttggc ggcgcgagacg 60  
tggcttggcg tgtggggcgt gaggaccatg caagcccagag gcttcgggctc ggatcagtcc 120  
gagaatgtcg accggggcgc gggctccatc cgggaagccg gtggggcctt cggaaagaga 180  
gagcaggctg aagaggaacg atatttccgg tgaggctcac cgggtcccaa gtccagccct 240  
ggatctccca atggccttcc aatccttaaa ctgccaatcg cccacccgt tcctacctgg 300  
tgccttgggc gcccattccc ocaacagaac tccggggccc caatccagta taccctaacc 360  
cttgatgtcc cgaccgttgc cacgtatagg gcactcccag ttacctgcac aacagtttca 420  
ggccccaaa ccgtttccac cggcgggtct ccaaaacaac ccacggctca actcctcctt 480  
tatcattacc atctcccgcg tggagtctct ctccaggctgt gcgaaacacc cccagattct 540  
tcgcacagtg tctagatccg accgcccacg gtttgccctc cagcctgact cctcggccc 600  
ttaccacact gtcacccct ctacgctctc ctccctcgc agcacgcctt agctttgcaa 660  
gcctgcatgc attcaggctt ctccagggtt tctagacccc cgactccgca agagttagga 720  
tgatgggagc tggatcatgg agctacttat ggttggacac catcttctaa aggcttttgc 780  
cctactcagc ccaacctaga cctgtagatt tccctctcct gcttaggagt atggagtggg 840  
ctgggcctcc ctttgccagc cttgagttat ctttaactga cttctgtcca ctctgaagag 900  
cagtaggaa ttaatcttgc ttttgcttgt cctttggcct ttcacttctg ccttctgttg 960  
agaattatca ccatgacacc tgccataccg tatagagagc caaggtacag ccgttagaga 1020  
ctatctaatt gagcccctac atttttagt taaggaaaac tgaggcctaa atgtgaccaa 1080  
accaacattg taatccagtc ccttcttggg acctaaattg aactgccaaag tactgagcat 1140  
gcaagagacc ctttatttgc cttacagtgg gccattcatt tctataggca aagaaagctc 1200  
tagacagatt ggaataggaa atggatattt gccttttagc tacaccctt tgtctgtctt 1260  
cctcattttg ttcctttttt tttccctaaa ggggagtcac gttccctggg ttgttcccct 1320  
cataaggtat tagggacttg tgtcacatct ctctggagtt ttctatttta aagaggaatc 1380  
tgaaagcaat aagctctttg gtcttcttaa gatggctaca cctcaattta agatggggtg 1440  
ttctttcact agttgaggag tagaagagga tgaccagcta gactcccatg gaattggaac 1500  
tcctattcct tgcttagaca ttacagggtt tgctttgaga tctctttggg gtgaaggatt 1560  
gaaattaaac cctgagccac cgtgtccttg tagagcacag agtagagaac aactggcagc 1620  
tttgaaaaaa caccatgaag aagaaatcgt tcatcataag aaggagattg agcgtctgca 1680  
gaaagaaatt gagcgccata agcagaagat caaatgcta aaacatgatg attaatgca 1740  
caccgtgtgc catagaatgg cacatgtcat tgcccacttc tgtgtagaca tggttctggg 1800  
ttaactaata tttgtctgtg tgctactaac agattataat aaattgtcat cagt 1855

<210> 10615

<211> 1705

<212> DNA

<213> Homo sapiens

<400> 10615

tttatatata aggaatgcaa ttacctctca aaatttatga gaacaaactc aagtccatag 60  
aaacctctgg agctgagcat cctcagttca aatgctggct ctgccactta ccagctgcat 120  
gatcttgggc aagttaatct gcctcaaggc tttggcaaga tcaaagggtt gctatgacct 180  
gatgcacaca tggtagctga cttcaggtag gtactgagtg catgtcactg gtggcagatt 240  
gcattgcccc aaggcgtctg aacaattaaa gatgtcccag acctcctgt ctaacaacat 300  
gactgacatt gctctcactg agagggtggc tctatgttcc tccggtttaa tctgggaaga 360

```

gaggagtcc caggctaggt catagaaggt gatgcaggt ccactcagct cacctgtgct 420
cactccctct tctttttttt cctctctctc tctctctccc tccaactccc catacctctg 480
tctctctctg ctcacccttg aatgcagcta ccatgctgtg aggaaacctg gactaggcca 540
gctggaaaaga ggacatggac aggcctatit ggggaggagc tgagtgaggc cccagtgcaca 600
gcaaacatca gttgtcagat gtgcaatgga tgagccttca gcaggctctg ctgtgccctt 660
ttcaaatgca tatttattat gcagccagag ttggcagcaa gcactaagct gtgacagtgc 720
aagtaattta attggtgagg cccattcttg caactacctc tgtgactagt ggagacaact 780
cagatcccag ataaaggatg ggggtgctggg tcagcatgcc aaaccaagc taccacaggg 840
ggctcagagg aagaataatg tgctggaaaag tgctctgtgg catgtaaaaa tgggtgtctt 900
ctcaggatct agcagtggga ctagatttgg gtagaagtgc caaatgagag aaagcaaaga 960
ccctaaggat gagatttaat gaggttgctg cctgtgtctt ggcctgtcct ccgctgggtg 1020
tcctcttcca agggcattcc tgcccatggg gaacagaggc tttgggtaag gaacacagcc 1080
atcatattgt atgaacagcc acacagggag gctggcatga agctaataca ggctagaagt 1140
ctctcctggg aggaggctgc cacgtggggg tcacagagtg ctgaggggcca cttggaaagt 1200
tgtggatcca acaaggatcc tggggccctgg aagctccaca gcacccctca gtagcaggct 1260
gtgaagtatc tgacctgtgt tatcagtaga cggctcttgg cttgactgca agttgtccag 1320
gttcttgggt ttttgaacaa agaattagat aaaatgcaca gcaaagcaag gaaagaatga 1380
agcaatgaaa gagcaaaaac agatatttat tgaaaatgaa agtacactcc acagtgtggg 1440
aatgggtgga gcagcagctc aaggctccagg atatagaatc tacagagtcc aaatgccctt 1500
tagaggtttc ccattggcca cttggtgttc acccggtgta aatgaagtgg cggcctgctt 1560
tctgcaacca atcagaggct gaagtgaagt tacaaagtta cgtccctatg caacatctga 1620
ttggttgcac aaagcaacca atcagaggta ttttcagttt cgcactctgt gcactccagc 1680
ctgggcgaca gtgacactct atctc                                     1705

```

<210> 10616  
 <211> 1609  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (563)..(1558)

```

<400> 10616
agtctttttt cccctccctt actcttcgtc cccggtccct cccctcccca cccctttcct 60
tctagctccg acgtttgcgg ccgcgggggc ggccggaggat atggagtaaa gccagagtca 120
gtggccaggc acgaaggcag agcaggaaca gccaggaggc gtttattagg ggggcggggg 180
gaaagagccc cagcaccgcc cctcctggaa gaaggaagag gaagtggcag tttttgtctt 240
tgataaaaaa ctgattgaca agtatcaaaa atttgaaaag gatcaaatca ttgattctct 300
aaaacgagga gtccaacagt taactcggct tcgacacctt cgacttctta ctgtccagca 360
tccttttagaa gaatccaggg attgcttggc attttgtaca gaaccagttt ttgccagttt 420
agccaatgtt cttggtaact gggaaaatct acctccctt atatctccag acattaagga 480
ttataaactt tatgatgtag aaaccaaata tggtttgctt caggtttctg aaggattgtc 540
attcttgcac agcagtgtga aaatgggtgca tggaatatat actcctgaaa atataatit 600
gaataaaaagt ggagcctgga aaataatggg ttttgatttt tgtgtatcat caaccaatcc 660
ttctgaacaa gagcctaaat ttcttgttaa agaattggac ccaaatttac cttcattgtg 720
tcttccaaat cctgaatatt tggctcctga atacatactt tctgtgagct gtgaaacagc 780

```

```

cagtgatatg tattcttttag gaactgtttat gtatgctgta ttttaataaaag ggaaacctat 840
atttgaagtc aacaagcaag atattttacaa gagtttcagt aggcagttgg atcagttgag 900
tcgttttagga tctagttcac ttacaaatat acctgaggaa gttcgtgaac atgtaaagct 960
actgttaaatt gtaactccga ctgtaagacc agatgcagat caaatgacaa agattccctt 1020
ctttgatgat gttggtgcag taacactgca atattttgat accttattcc aaagagataa 1080
tcttcagaaa tcacagtttt tcaaaggact gccaaaagggt ctacccaaaac tgcccaagcg 1140
tgtcattgtg cagagaattt tgccttgttt gacttcagaa tttgtaaacc ctgacatggg 1200
accttttgtt ttgcccaatg ttctacttat tgotgaggaa tgcaccaaaag aagaatatgt 1260
caaattaatt ctctctgaac ttggccctgt gttaaagcag caggagccaa tccagatttt 1320
gttaattttc ctacaaaaaa tggatttgct actaaccaaa acccctcctg atgagataaa 1380
gaacagtgtt ctacccatgg ttacagagc actagaagct ccttccattc agatccagga 1440
gctctgtcta aacatcattc caacctttgc aaatcttata gactacccat ccatgaaaaa 1500
cgctttgata ccaagaatta aaaatgcttg ctacaaacat cttcccttgc ggttcgtgta 1560
aattcattaa acaacattgg agcagacctt ctgactggca gtgagtcgg 1609

```

<210> 10617  
 <211> 332  
 <212> PRT  
 <213> Homo sapiens

<400> 10617

Met	Val	His	Gly	Asn	Ile	Thr	Pro	Glu	Asn	Ile	Ile	Leu	Asn	Lys	Ser
1				5					10					15	
Gly	Ala	Trp	Lys	Ile	Met	Gly	Phe	Asp	Phe	Cys	Val	Ser	Ser	Thr	Asn
			20					25					30		
Pro	Ser	Glu	Gln	Glu	Pro	Lys	Phe	Pro	Cys	Lys	Glu	Trp	Asp	Pro	Asn
		35				40					45				
Leu	Pro	Ser	Leu	Cys	Leu	Pro	Asn	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Tyr
	50				55						60				
Ile	Leu	Ser	Val	Ser	Cys	Glu	Thr	Ala	Ser	Asp	Met	Tyr	Ser	Leu	Gly
65					70					75				80	
Thr	Val	Met	Tyr	Ala	Val	Phe	Asn	Lys	Gly	Lys	Pro	Ile	Phe	Glu	Val
				85					90					95	
Asn	Lys	Gln	Asp	Ile	Tyr	Lys	Ser	Phe	Ser	Arg	Gln	Leu	Asp	Gln	Leu
			100					105					110		
Ser	Arg	Leu	Gly	Ser	Ser	Ser	Leu	Thr	Asn	Ile	Pro	Glu	Glu	Val	Arg
	115						120					125			
Glu	His	Val	Lys	Leu	Leu	Leu	Asn	Val	Thr	Pro	Thr	Val	Arg	Pro	Asp
	130					135					140				
Ala	Asp	Gln	Met	Thr	Lys	Ile	Pro	Phe	Phe	Asp	Asp	Val	Gly	Ala	Val
145					150					155				160	
Thr	Leu	Gln	Tyr	Phe	Asp	Thr	Leu	Phe	Gln	Arg	Asp	Asn	Leu	Gln	Lys
				165				170					175		
Ser	Gln	Phe	Phe	Lys	Gly	Leu	Pro	Lys	Val	Leu	Pro	Lys	Leu	Pro	Lys
		180					185					190			
Arg	Val	Ile	Val	Gln	Arg	Ile	Leu	Pro	Cys	Leu	Thr	Ser	Glu	Phe	Val
	195					200						205			

009270.69462960

Asn	Pro	Asp	Met	Val	Pro	Phe	Val	Leu	Pro	Asn	Val	Leu	Leu	Ile	Ala
210						215				220					
Glu	Glu	Cys	Thr	Lys	Glu	Glu	Tyr	Val	Lys	Leu	Ile	Leu	Pro	Glu	Leu
225					230					235					240
Gly	Pro	Val	Phe	Lys	Gln	Gln	Glu	Pro	Ile	Gln	Ile	Leu	Leu	Ile	Phe
				245					250					255	
Leu	Gln	Lys	Met	Asp	Leu	Leu	Leu	Thr	Lys	Thr	Pro	Pro	Asp	Glu	Ile
			260					265					270		
Lys	Asn	Ser	Val	Leu	Pro	Met	Val	Tyr	Arg	Ala	Leu	Glu	Ala	Pro	Ser
		275					280					285			
Ile	Gln	Ile	Gln	Glu	Leu	Cys	Leu	Asn	Ile	Ile	Pro	Thr	Phe	Ala	Asn
	290				295						300				
Leu	Ile	Asp	Tyr	Pro	Ser	Met	Lys	Asn	Ala	Leu	Ile	Pro	Arg	Ile	Lys
305					310					315					320
Asn	Ala	Cys	Tyr	Lys	His	Leu	Pro	Leu	Arg	Phe	Val				
				325					330						

<210> 10618  
 <211> 1371  
 <212> DNA  
 <213> Homo sapiens

<400> 10618

aacaggcacc	gctgcgggga	ctggagtcgg	cggagaaaac	cggggtcccc	agcgcctgggg	60
cccgcggcgc	catggctcac	gtcggctccc	gcaagcgctc	gaggagtcgc	agccggtccc	120
ggggacgggg	gtcggaaaag	agaaagaaga	agagcaggaa	agacacctcg	aggaactgct	180
cggcctccac	atcccaaggt	cgcaaggcca	gcacggcccc	tggggcggag	ggtgaggacc	240
acaggcatcg	gggagaggag	gcgagttac	taccggggga	agtcggggca	gcagtggctg	300
gggacgctca	gtcatgcctc	tgtgcagccg	ggcctgagat	gtgagggcca	ggcgccgcag	360
gagccaggaa	ggggctcctc	tgggaagctc	catctctgtt	ctggaaagcc	cctcaggaag	420
cgctcaccct	gtagccggcc	tgtgcctgcc	ccaggccaga	gcaggggacg	aaggtttacc	480
tcttccctc	ctggctttcc	agcctcacct	tctccctgca	tcacagagag	aagcaagcag	540
aaggcccgga	ggagaacaag	atccagctcc	tctctctctt	cttccagttc	ttctagctcc	600
tcttcttct	cctcgtcctc	ctcctcttcc	tccagtgatg	gccggaagaa	gcgggggaag	660
tacaaggaca	agaggaggaa	gaagaagaag	aagaggaaga	agctgaagaa	gaagggaag	720
gagaaggcgg	aagcacagca	ggtggaggct	ctgccgggcc	cctcgcctgga	ccagtggcac	780
cgatcagctg	gggaggaaga	ggatggccca	gtccagacgg	atgagcagaa	gtcccgaatc	840
caggccatga	agcccatgac	caaggaggag	tgggatgccc	ggcagagcat	catccgcaag	900
gtggtggacc	ctgagacggg	gcgacaccag	cttattaagg	gagatggcga	ggtcctagag	960
gaaatcgtaa	ccaaagaacg	acacagagag	atcaacaagg	tgggtgtggc	ccctctgcct	1020
gccatccgcc	cccagctctg	tttgtgatgt	acccctcctc	ctgtgtgctt	tcttccgcag	1080
caagccacc	gaggggactg	cctggccttc	cagatgcgag	ctgggttgct	tccctgaggg	1140
ccccgctgg	ccaaggcctg	tggacgacgc	tggcggccca	gcctgggcag	gttttcaggg	1200
tgccagtggg	aagcctgatg	ggtgctggtg	gcctttcccc	cgtggattgg	tctctggccc	1260
agcccagct	cttctcaggg	gcagggggtg	gaggttgggg	tcaccggcct	gcttggcacc	1320
cccctctgaa	agagcagcac	ttctcagcta	ttaaaggccc	cctggataga	c	1371

09629469.072300



<210> 10619  
<211> 1629  
<212> DNA  
<213> Homo sapiens

<400> 10619  
agctggcgtc agggacttcc tcgggctccc taaggacctg ctctcccagt tctctactct 60  
tccctctgag gcagaggctg ggcaggaccc acaggcagcc cttagtgacc cgcactccac 120  
accctgtctg ccttaggaga aatggggctct gtgaatctgg gctctccctc catgctgccg 180  
tgtctgcgga gccagggtgcc ggcggtggcct ctgctagcca gcagagttag catgcacagc 240  
tggtccaggg cacgggtgtt tgtttgcact gttccagaca tcgtcatctc catctgatga 300  
tgatcactcg gcagctttga gccctggcac agcttcgggt cgaagcacgt tcccttttca 360  
ggagagtga gccgagcttt ccttcacgca gacttaattt cctggactta gtgctaacgt 420  
caagacaaa cctgtaggaa aagagcttta actacacaaa cacatactga cagattcagc 480  
caaactccga gagtcccaga ccggagcctg tgtccctagc gcagggtgtg ctgtcgggca 540  
gccgacggtg cctgtgcagg cagtggctgg acaccactac tcccttctct tccctccctg 600  
cttgatcgcg ctgtgggatt cctgatgctg tgtgggtctc tggctcccc tgctgtagaa 660  
ggggagtact gccctggga cacagaactg caaggccagt ggccgaggt acctcccaca 720  
ggaagaagat ttgaggacat ttaaagggtac ccactttacc ccgtgcccac cttctacccc 780  
agctccctgg cagccatcca aaatttgcct ccaagagcat gtctcacaga caaaggctctg 840  
tgttttatgg aactgtgctg acgggctctg cacacatctc actgggctac tctccctggg 900  
cccagcctgc ccagacagtc aggcgcaaag taacatgtga gtcagaagag gttctggagg 960  
aagttggaga aggctccaga agtggcctca tggaatgcgg ccccatctat gccgcatatg 1020  
ttttactgca agctcatctc cagccaagac ttggctcctt ctctgatgca ggaaacctat 1080  
cgccagtgca ggtgccttta atgtttctct gagaaaggag gaaatgctgg cttgtgctgt 1140  
cgataagtcc ccaaggctgc atgtattagc aggaagcaca gcaggactct gagagaagaa 1200  
tgtgtctctt ctctttgttg ctgagaaggt agagaaaggc cctgcactct ttgacttacc 1260  
ttcctcagtc ctgtgcatcc aggctgttag gtgactctgc tgtgacttag tcccaccag 1320  
caccataaag aaaggcaaat tgacggccgg gtgcagtggc tcatgcctgt aatcccagca 1380  
ctttgggagg ccgaggcgtg tggatcacct gagatcggga gtttgagacc agtctgacca 1440  
acatggagaa accctgtctc tactaaaaaa tataaaaaat tagtcgggca tgggtggcaca 1500  
tgccgtgaat ccagctact tgggaggctg aggcaggaga attgcttga cctgggaggc 1560  
ggaggttgcg gtgagctgag atcgtgccat tgcactctag cctgggcaac aagagcgaca 1620  
cttcgtctc 1629

<210> 10620  
<211> 1483  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1051).. (1305)

<400> 10620  
tacgaatgtg gccggtgtgg gcgagccttt actcacagct caaatcttgt tctgcaccat 60

```

cacattcaca ctggaaataa accatttaaa tgtgatgaat gtgggaaaac ttttggactc 120
aattctcacc tccgtcttca tgggagaatt cacactggag aaaaaccctt tggctgtggt 180
gagtgtggga aggctttcag tgaagotca actcttattc aacatcggat cattcacaca 240
ggagagaaaac cctacaagtg taatgaatgt ggaagaggct ttagccagag cccccagtta 300
actcagcatc agagaattca cactggagag aagccgcatg aatgcagtca ctgtgggaag 360
gccttcagtc gaagctccag ccttattcag catgagagaa ttcacactgg agagaagccc 420
cataaatgca atcagtgtgg gaaggccttc agtcagagct caagcctttt cctccatcat 480
cgggttcata ctggagagaa accctatgta tgtaatgaat gcggcagagc ctttggtttt 540
aactctcatc ttactgaaca tgtaaggatt cacacaggag aaaaacccta tgtttgtaat 600
gagtgcggca aagcctttcg tggagttcc actcttgttc agcatcgaag agttcacact 660
ggggagaagc cctaccagtg cgttgaatgt gggaaagctt tcagccagag ctcccagctc 720
accctacatc agcgagttca cactggagag aagccctatg actgtggtga ctgtgggaag 780
gccttcagcc ggaggtcaac cctcattcag catcagaaaag ttcacagcgg agagactcgt 840
aagtgcagaa aacatgggtcc agcctttgtt catggctcca gcctcacagc agatggacag 900
attcccactg gagagaagca cggcagagcc tttaaccatg gtgcaaactc cattctgcgc 960
tggaacagttc acactggtga gaaatccttt ggatgtaatg aatatggaaa agctttcagt 1020
cccacctcac gacctactga agatcagata atgcatgctg gggaaaagcc ctataaatgt 1080
caagaatgtg gaaacgcctt cagtggaaaag tcaaccctta ttcaacatca ggtaactcac 1140
actggtcaga aaccatgtca ttgcagtgtg tatgggaaaag ccttcagcca gagttcacag 1200
ctcacaccac ctacagcagac tcgtgttggga gagaaacctg ctttaaatga tggctctaaa 1260
agatacttta ttcatatcaa gaagattttc caagaaaagac atttttaatg tgataaatgc 1320
agaagacagt ttagcaactg ttcacttgac attagaagat aagatggcat aatgaaagat 1380
atataaggtc taaatattac tggcaaagta aaataaatag ttcagatgac tactaaagtc 1440
aaagtcatta aatctggaag taaacacgag aattcattct ggg                                     1483

```

<210> 10621  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

```

<400> 10621
Met His Ala Gly Glu Lys Pro Tyr Lys Cys Gln Glu Cys Gly Asn Ala
  1             5             10             15
Phe Ser Gly Lys Ser Thr Leu Ile Gln His Gln Val Thr His Thr Gly
          20             25             30
Gln Lys Pro Cys His Cys Ser Val Tyr Gly Lys Ala Phe Ser Gln Ser
          35             40             45
Ser Gln Leu Thr Pro Pro Gln Gln Thr Arg Val Gly Glu Lys Pro Ala
          50             55             60
Leu Asn Asp Gly Ser Lys Arg Tyr Phe Ile His Ile Lys Lys Ile Phe
          65             70             75             80
Gln Glu Arg His Phe
                85

```

<210> 10622  
 <211> 1565

09629469.072800

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (105).. (1040)

<400> 10622

```

ttttttccag aaatacttgc agacttgaag gaattatcag tctttcattt tctatcatca 60
gtgtccctatg atagtttgtg cttccctccc tcatcccttt gticatgtca ctctgttcac 120
caaccacttc tgctgaaatg tcgttatttc ttcaaggccc ggaggaaatg ctaccactct 180
catcagagggg ttcagagatg ggcatgtaga aggagcagag tccagaacca cacctgcctg 240
aggaagggga agggggtaag ccttggagag tggatgactc agagggttct tggatccac 300
ctggggagaa ggagcatggg caagagagcc tgtcggatga actgcaagaa actcatccaa 360
aaaagccatg gcagaaagtc actgcccggg ctcgagagct aggggacccc attgtctatc 420
caaggcatga ggcagatgag aagcccttta tatgtgcccc gtgtggcaaa accttcaata 480
atacctccaa cctgagaaca caccagcgga tccacactgg tgagaagcct tacaagtgtt 540
ctgaatgtgg caagagcttc tcgagaagct ccaaccgcat ccggcacgag cggatccacc 600
tggaagagaa aactacaaa tgccccaagt gccaggagag ctttcggcgg cgctcagacc 660
tcaccacgca ccagcaagat cacctaggca agcggccata ccgctgtgac atctgtggca 720
agagcttcag ccagagtgcc acgctagctg tgcatacccg gaccacactg gagccagcac 780
cctacatctg ctgtgagtgt ggggaagagct tcagcaacag ctccagcttt ggcgtgcac 840
accgcaccca cacaggtgag agaccttatg agtgcactga gtgtgggcgg accttcagcg 900
atatctccaa ctttggagca caccagcgga cccacagagg ggagaagccc taccggtgca 960
ctgtgtgtgg gaaacacttc tcccggagct cgaacctcaa gcccttcac ccactttgga 1020
gaatggtttt gtatagcctc tgaagtcagg atctcaggaa gtcttgagga gggactctgg 1080
aataaaaacc cttgcctctt tccaggccaa tttctcgtgt tggaaagtca gaagaccag 1140
tcttggcttt actttcttgg ggtgaaagag aaatagggtta ggctcagaac atgctcatgt 1200
tattaaggca gcagtcccc tggcctttga ggaagtactt atgagatggg tgtcactgtc 1260
tgaaggttct ccaaattgtc tgtgaactgc ttaggttagga gtgcactgca gtttcctgct 1320
agttcccacc tgttgtgccc caactttgct tctagatctc tgggggtggga ggagtgcct 1380
tctcaatgga aggggcctcc ttggtctgga gaagagatct gaggtcccac cttagaaatg 1440
aaagggaaac cctcagggag ccatgacca gggaccttca cactccccca tgtttgttac 1500
ttgttatccc tcccccaacc tgcctctgtt ttcccagag tgattagcag taaaaccctt 1560
caatg                                         1565

```

<210> 10623  
<211> 312  
<212> PRT  
<213> Homo sapiens

<400> 10623

```

Met Ser Leu Cys Ser Pro Thr His Ser Ala Glu Met Ser Leu Phe Leu
 1             5             10             15
Gln Gly Pro Glu Glu Met Leu Pro Leu Ser Ser Glu Gly Ser Glu Met
          20             25             30
Gly Ser Glu Lys Glu Gln Ser Pro Glu Pro His Leu Pro Glu Glu Gly

```

096245.07300



```

ctttcctaaa ttagtttttag tatgagttcc atttctaatt agotcaaatt aaagtcctag 360
agagcagcga ggtaatatatt aaaccctcag gctaaaaatt cggagtaggt gcagaatgtt 420
gactctaaat gagttttttcc tgtgacataa cagcatgaa agcaggattt ctttcatgtg 480
tgaaatgtct taaatcagac ttaccctttg tgattctctt ttagctttta atgtcattta 540
agaagaaaaa agaaaagaaa attaagcatg acattcccca atatcctctg ctactgtgt 600
tataatccct atcactccac aagtgaattg gagagagtga agacacaatg aacagaaact 660
tccctgatgc ttcacagagg aagtgtttct cgggaccaca cagcctccac catgtccatc 720
tacgaagggc tgtggcaagc catatacaca aagatgcctg tttcctgtct tctcggttaa 780
aaacaaaaac aaaacaccgg aaaaagccaa gctgccatgg gttgcagagt gccagccctt 840
aagtagtggt gttcatgggt aaacaggaga cggataaggg caatttcaag aaataacaaa 900
ctcaaggcat gaatgtggtt atccaaacat caagggactc cttcatttgc atttgataa 960
ttgtgcagtt atatgatttg ttacatggag accagatgga agtaagagag ctcatcctca 1020
acttcctgta cctctggaag tctttacaca catgctggag agatagagga gatttcatta 1080
gcatacaaacc accatggatt tcataatcaa ttctaatat ctgaatagat gcagaaaagt 1140
cacaggcatc tagaagtgtg gcccaagttc tgttcttcaa tcagcccacc cattatccct 1200
atgtatctcg attttgttat ctaaaagatc acatgatgga ggatgtaagc aagtaacaca 1260
gccaaagacc agtttacagt gtctagtacc taacagactc ttgacacgtt tcaactgccc 1320
ttgagtcagt ctttccatgt cactgaatat tcttcacaa cacgatttta atggatatag 1380
tcgtccattg tttaaatgta ccattattga ccaatgtaaa aatgttctt tacctcaaat 1440
ttttatatgt aaaacaaaaa catgtttgag gactaaaccc acagtgtagt ataaattaaa 1500
ctggatgtag gccaggcatg gtgagtcaca cctatagtcc cagcactttg ggaaaccaag 1560
acaggaggat ggcttgaagc caggagctca agagcagcct gggcaataca gcaagacctc 1620
atctctac                                     1628

```

<210> 10625  
 <211> 1983  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (202).. (1983)

```

<400> 10625
aagaggctgc gcgctgctgt ttggggaggg ggtgtgtgga gccgggtcct gtgtccgcag 60
tggtctgctgt cgggggggtcg cctgttcgcg gaggtgcgga gagactcctt ggggggtcgag 120
cactgtggct ggcatgcccc agtgttttgg ataccaatgc ataggactcc atagtaatcg 180
aatttaccag aggcgaacgt catgagcata gtgatcccat tgggggttga tacagcagag 240
acgtcatact tggaaatggc tgcaggttca gaaccagaat ccgtagaagc tagccctgtg 300
gtagttgaga aatccaacag ttatcccccac cagttatata ccagcagctc acatcattca 360
cacagttaca ttggtttgcc ctatgcggac cataattatg gtgctcgtcc tcctccgaca 420
cctccggctt cccctcctcc atcagtcctt attagcaaaa atgaagtagg catatttacc 480
actcctaatt ttgatgaaac ttccagtgct actacaatca gcacatctga ggatggaagt 540
tatggtactg atgtaaccag gtgcataatgt ggttttacac atgatgatgg atacatgatc 600
tgtttgaca aatgcagcgt ttggcaacat attgactgca tggggattga taggcagcat 660
attcctgata catatctatg tgaacgttgt cagcctagga atttgataa agagagggca 720
gtgctactac aacgccggaa aagggaatat atgtcagatg gtgataccag tgcaactgag 780

```

```

agtggatgatg aggttcctgt ggaattatat actgcatttc agcatactcc aacatcaatt 840
actttaactg cttcaagagt ttccaaagtt aatgataaaa gaaggaaaaa aagcggggag 900
aaagaacaac acatttcaaa atgtaaaaag gcatttcgtg aaggatctag gaagtcatca 960
agagttaagg gtccagctcc agagattgat cttcatctg atggttcaaa ttttgatgg 1020
gagacaaaga tcaaagcatg gatggatoga tatgaagaag caaataacaa ccagtatagt 1080
gaggggtgttc agagggaggc acaaagaata gctctgagat taggcaatgg aaatgacaaa 1140
aaagagatga ataaatccga tttgaatacc aacaatttgc tcttcaaacc tcctgtagag 1200
agccatatac aaaagaataa gaaaattctt aaatctgcaa aagatttgcc tcctgatgca 1260
cttatcattg aatacagagg gaagtttatg ctgagagAAC agtttgaagc aaatgggtat 1320
ttcttttaaa gaccataccc ttttgtgtta ttctactcta aatttcatgg gctagaaatg 1380
tgtgttgatg caaggacttt tgggaatgag gctcgattca tcaggcggtc ttgtacacc 1440
aatgcagagg tgaggcatga aattcaagat ggaaccatac atctttatat ttattctata 1500
cacagtattc caaagggaac tgaaattact attgcctttg attttgacta tggaaattgt 1560
aagtacaagg tggactgtgc atgcctcaaa gaaaaccag agtgccctgt tctaaaacgt 1620
agttctgaat ccatggaaaa tatcaatagt ggttatgaga ccagacggaa aaaaggaaaa 1680
aaagacgaag atatttcaaa agaaaaagat acacaaaatc agaataattac tttggattgt 1740
gaaggagcga ccaacaaaat gaagagccca gaaactaaac aaagaaagct ttctccactg 1800
agactatcag tatcaataa tcaggaacca gattttattg atgatataga agaaaaaact 1860
cctattagta atgaagtaga aatggaatca gaggagcaga ttgcagaaag gaaaaggaa 1920
atgacaagag aagaaagaaa aatggaagca attttgcaag cttttgccag acttgaaaaa 1980
aag

```

<210> 10626  
 <211> 594  
 <212> PRT  
 <213> Homo sapiens

<400> 10626

Met	Ser	Ile	Val	Ile	Pro	Leu	Gly	Val	Asp	Thr	Ala	Glu	Thr	Ser	Tyr
1				5				10						15	
Leu	Glu	Met	Ala	Ala	Gly	Ser	Glu	Pro	Glu	Ser	Val	Glu	Ala	Ser	Pro
			20					25					30		
Val	Val	Val	Glu	Lys	Ser	Asn	Ser	Tyr	Pro	His	Gln	Leu	Tyr	Thr	Ser
			35					40					45		
Ser	Ser	His	His	Ser	His	Ser	Tyr	Ile	Gly	Leu	Pro	Tyr	Ala	Asp	His
		50				55					60				
Asn	Tyr	Gly	Ala	Arg	Pro	Pro	Pro	Thr	Pro	Pro	Ala	Ser	Pro	Pro	Pro
					70					75					80
Ser	Val	Leu	Ile	Ser	Lys	Asn	Glu	Val	Gly	Ile	Phe	Thr	Thr	Pro	Asn
				85					90					95	
Phe	Asp	Glu	Thr	Ser	Ser	Ala	Thr	Thr	Ile	Ser	Thr	Ser	Glu	Asp	Gly
			100					105					110		
Ser	Tyr	Gly	Thr	Asp	Val	Thr	Arg	Cys	Ile	Cys	Gly	Phe	Thr	His	Asp
		115				120					125				
Asp	Gly	Tyr	Met	Ile	Cys	Cys	Asp	Lys	Cys	Ser	Val	Trp	Gln	His	Ile
		130				135					140				
Asp	Cys	Met	Gly	Ile	Asp	Arg	Gln	His	Ile	Pro	Asp	Thr	Tyr	Leu	Cys

09629469.072800

145					150					155				160
Glu	Arg	Cys	Gln	Pro	Arg	Asn	Leu	Asp	Lys	Glu	Arg	Ala	Val	Leu
				165					170					175
Gln	Arg	Arg	Lys	Arg	Glu	Asn	Met	Ser	Asp	Gly	Asp	Thr	Ser	Ala
			180					185					190	
Glu	Ser	Gly	Asp	Glu	Val	Pro	Val	Glu	Leu	Tyr	Thr	Ala	Phe	Gln
		195					200					205		His
Thr	Pro	Thr	Ser	Ile	Thr	Leu	Thr	Ala	Ser	Arg	Val	Ser	Lys	Val
	210					215					220			Asn
Asp	Lys	Arg	Arg	Lys	Lys	Ser	Gly	Glu	Lys	Glu	Gln	His	Ile	Ser
225					230					235				240
Cys	Lys	Lys	Ala	Phe	Arg	Glu	Gly	Ser	Arg	Lys	Ser	Ser	Arg	Val
			245						250				255	Lys
Gly	Ser	Ala	Pro	Glu	Ile	Asp	Pro	Ser	Ser	Asp	Gly	Ser	Asn	Phe
		260					265						270	Gly
Trp	Glu	Thr	Lys	Ile	Lys	Ala	Trp	Met	Asp	Arg	Tyr	Glu	Glu	Ala
	275					280						285		Asn
Asn	Asn	Gln	Tyr	Ser	Glu	Gly	Val	Gln	Arg	Glu	Ala	Gln	Arg	Ile
290					295					300				Ala
Leu	Arg	Leu	Gly	Asn	Gly	Asn	Asp	Lys	Lys	Glu	Met	Asn	Lys	Ser
305				310						315				Asp
Leu	Asn	Thr	Asn	Asn	Leu	Leu	Phe	Lys	Pro	Pro	Val	Glu	Ser	His
			325						330					Ile
Gln	Lys	Asn	Lys	Lys	Ile	Leu	Lys	Ser	Ala	Lys	Asp	Leu	Pro	Pro
		340					345					350		Asp
Ala	Leu	Ile	Ile	Glu	Tyr	Arg	Gly	Lys	Phe	Met	Leu	Arg	Glu	Gln
	355					360					365			Phe
Glu	Ala	Asn	Gly	Tyr	Phe	Phe	Lys	Arg	Pro	Tyr	Pro	Phe	Val	Leu
	370				375						380			Phe
Tyr	Ser	Lys	Phe	His	Gly	Leu	Glu	Met	Cys	Val	Asp	Ala	Arg	Thr
385				390						395				400
Gly	Asn	Glu	Ala	Arg	Phe	Ile	Arg	Arg	Ser	Cys	Thr	Pro	Asn	Ala
			405						410				415	Glu
Val	Arg	His	Glu	Ile	Gln	Asp	Gly	Thr	Ile	His	Leu	Tyr	Ile	Tyr
		420					425					430		Ser
Ile	His	Ser	Ile	Pro	Lys	Gly	Thr	Glu	Ile	Thr	Ile	Ala	Phe	Asp
	435					440					445			Phe
Asp	Tyr	Gly	Asn	Cys	Lys	Tyr	Lys	Val	Asp	Cys	Ala	Cys	Leu	Lys
	450				455					460				Glu
Asn	Pro	Glu	Cys	Pro	Val	Leu	Lys	Arg	Ser	Ser	Glu	Ser	Met	Glu
465				470						475				Asn
Ile	Asn	Ser	Gly	Tyr	Glu	Thr	Arg	Arg	Lys	Lys	Gly	Lys	Lys	Asp
			485						490				495	Glu
Asp	Ile	Ser	Lys	Glu	Lys	Asp	Thr	Gln	Asn	Gln	Asn	Ile	Thr	Leu
		500					505					510		Asp
Cys	Glu	Gly	Ala	Thr	Asn	Lys	Met	Lys	Ser	Pro	Glu	Thr	Lys	Gln
	515					520					525			Arg
Lys	Leu	Ser	Pro	Leu	Arg	Leu	Ser	Val	Ser	Asn	Asn	Gln	Glu	Pro

000220.69462960

-4113/13211-

530		535		540
Phe Ile Asp Asp Ile Glu Glu Lys Thr Pro Ile Ser Asn Glu Val Glu				
545		550		555
Met Glu Ser Glu Glu Gln Ile Ala Glu Arg Lys Arg Lys Met Thr Arg				560
		565		570
Glu Glu Arg Lys Met Glu Ala Ile Leu Gln Ala Phe Ala Arg Leu Glu				575
		580		590
Lys Lys				

<210> 10627

<211> 2174

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (23).. (1357)

<400> 10627

acagtctcca	ctgaaaggct	aatggggagg	atcttccccc	gtgacctcaa	aagctattgt	60
ggatgctgat	ggaagaattt	atattcggaa	ctggcagggt	ggcatcctgt	ctgggggctt	120
tgagaagaac	ccgaaaccaa	ttttcactga	gggcaagaac	cagctggaga	ttcagaatct	180
acaggaagac	tgggatcact	ttgagcctct	gttgagtcc	cttctgagga	ggatgccaga	240
attagagact	ctggagatca	tgaagttggt	gaactgcca	gagaccttca	caccagacat	300
gaggtgcatc	atgggcgagt	ctcctgcagt	gcagggctac	tttgtcctgg	caggaatgaa	360
ctctgctggc	ctttcatttg	gtggaggagc	cggaaagtac	cttgccgaat	ggatggtaca	420
tggttatccc	tcagaaaacg	tttgggaatt	ggacctgaaa	cgttttggag	ccctccagag	480
cagccgcacc	tttctgcgcc	accgggccat	agaagtcatt	cctttgatgt	atgatctgaa	540
ggttccccgc	tgggacttcc	agaccggtag	gcagttacgc	acctctctc	tctacgaccg	600
gctggatgca	cagggagcca	ggtggatgga	gaaacatgga	tttgagaggc	caaagtactt	660
tgttcccccc	gacaaggacc	tcctggcatt	ggagcagagc	aagactttct	ataagccaga	720
ttggtttgac	atcgtggagt	ctgaagtcaa	gtgctgtaag	gaagctgtgt	gtgtcattga	780
catgtcctct	ttcacaaagt	ttgagataac	atccactggg	gatcaggcat	tagaagttct	840
acagtacctc	ttctccagtg	acctggatgt	gcctgtgggc	cacattgtgc	atactggcat	900
gctcaacgag	ggtggagggt	atgaaaatga	ctgcagcata	gcacgactga	acaagcgcag	960
tttcttcatg	atctctccaa	ccgaccagca	ggtccactgt	tgggcctggc	ttaagaaaca	1020
catgccgaaa	gacagcaacc	tgctcctgga	ggacgtcacc	tgggaagtaca	cagccctcaa	1080
totgattggc	cctcgagctg	tggatgtgct	gtctgagttg	tcctatgccc	ctatgactcc	1140
agaccacttc	ccaagcctct	tttgcaagga	gatgagcgtg	ggctatgcaa	aggggatccg	1200
ggtgatgagc	atgacgcaca	caggagagcc	aggattcatg	ctctacatcc	ccatagaggg	1260
catgatttca	ttggtcgcga	tgcctcctg	cagcagaagc	agaatggagt	gtataaacgc	1320
ctcaccatgt	tcctcctgga	cgaccatgat	tcagacctag	acctttggcc	ttggtgggga	1380
gagcccatit	accggaatgg	gcagtatgtt	ggcaagacca	ccagcagtgc	ctacagctac	1440
agcctggagc	gccacgtttg	cctgggcctt	gtgcacaatt	tttctgagga	cacgggggaa	1500
gagcaagtgg	tgacagcaga	tttcatcaac	cggggagagt	atgagattga	catcgcggga	1560
taccgcttcc	aggccaaggc	caagctctac	cctgtcgcct	ccctcttcac	ccagaagcgc	1620

09629469.0.2300



cgaaaggatg acatggagct gagtgacttc cttgcccttc cacctcctcc tcctaataatt 1680  
cactctgggc tcttcttccc ttcccacccc tcactcagct gctcgtgggtg gcaggaggta 1740  
tgtctgacag gacagaagca agctcccat catcttgtcc tagagtgggc gtcaccttgg 1800  
agcttctctt ccttcgcct ctgttcctct tctggagcct ttgcctccca tctcttatct 1860  
ccttgatata attttgaact tgacctactt taaacttttt tgctctgctg tgctgtgggc 1920  
tggcactcga tacctctggc aagaggatga tcactacct cactgataag aggcacgca 1980  
tggacgttct ctggtctgta gtggagacaa gcagtaacc tagcaccatc ctcatcctcc 2040  
ctgcagaagc cattagcaga cctttgggccc agggcagcct ccctataatt ttcttcatct 2100  
cttgctaata tctataataa ggttgctttt tctttcttag ttgagtaaac aagtaagcca 2160  
cagtgttga aagg 2174

<210> 10628  
<211> 445  
<212> PRT  
<213> Homo sapiens

<400> 10628  
Met Gly Gly Ser Ser Pro Val Thr Ser Lys Ala Ile Val Asp Ala Asp  
1 5 10 15  
Gly Arg Ile Tyr Ile Arg Asn Trp Gln Gly Gly Ile Leu Ser Gly Gly  
20 25 30  
Phe Glu Lys Asn Pro Lys Pro Ile Phe Thr Glu Gly Lys Asn Gln Leu  
35 40 45  
Glu Ile Gln Asn Leu Gln Glu Asp Trp Asp His Phe Glu Pro Leu Leu  
50 55 60  
Ser Ser Leu Leu Arg Arg Met Pro Glu Leu Glu Thr Leu Glu Ile Met  
65 70 75 80  
Lys Leu Val Asn Cys Pro Glu Thr Phe Thr Pro Asp Met Arg Cys Ile  
85 90 95  
Met Gly Glu Ser Pro Ala Val Gln Gly Tyr Phe Val Leu Ala Gly Met  
100 105 110  
Asn Ser Ala Gly Leu Ser Phe Gly Gly Gly Ala Gly Lys Tyr Leu Ala  
115 120 125  
Glu Trp Met Val His Gly Tyr Pro Ser Glu Asn Val Trp Glu Leu Asp  
130 135 140  
Leu Lys Arg Phe Gly Ala Leu Gln Ser Ser Arg Thr Phe Leu Arg His  
145 150 155 160  
Arg Ala Ile Glu Val Met Pro Leu Met Tyr Asp Leu Lys Val Pro Arg  
165 170 175  
Trp Asp Phe Gln Thr Gly Arg Gln Leu Arg Thr Ser Pro Leu Tyr Asp  
180 185 190  
Arg Leu Asp Ala Gln Gly Ala Arg Trp Met Glu Lys His Gly Phe Glu  
195 200 205  
Arg Pro Lys Tyr Phe Val Pro Pro Asp Lys Asp Leu Ala Leu Glu  
210 215 220  
Gln Ser Lys Thr Phe Tyr Lys Pro Asp Trp Phe Asp Ile Val Glu Ser  
225 230 235 240

09629469.072800

Glu	Val	Lys	Cys	Cys	Lys	Glu	Ala	Val	Cys	Val	Ile	Asp	Met	Ser	Ser	
				245					250					255		
Phe	Thr	Lys	Phe	Glu	Ile	Thr	Ser	Thr	Gly	Asp	Gln	Ala	Leu	Glu	Val	
			260					265					270			
Leu	Gln	Tyr	Leu	Phe	Ser	Ser	Asp	Leu	Asp	Val	Pro	Val	Gly	His	Ile	
		275					280					285				
Val	His	Thr	Gly	Met	Leu	Asn	Glu	Gly	Gly	Gly	Tyr	Glu	Asn	Asp	Cys	
	290					295					300					
Ser	Ile	Ala	Arg	Leu	Asn	Lys	Arg	Ser	Phe	Phe	Met	Ile	Ser	Pro	Thr	
305					310					315					320	
Asp	Gln	Gln	Val	His	Cys	Trp	Ala	Trp	Leu	Lys	Lys	His	Met	Pro	Lys	
			325						330					335		
Asp	Ser	Asn	Leu	Leu	Glu	Asp	Val	Thr	Trp	Lys	Tyr	Thr	Ala	Leu		
		340					345					350				
Asn	Leu	Ile	Gly	Pro	Arg	Ala	Val	Asp	Val	Leu	Ser	Glu	Leu	Ser	Tyr	
	355					360						365				
Ala	Pro	Met	Thr	Pro	Asp	His	Phe	Pro	Ser	Leu	Phe	Cys	Lys	Glu	Met	
370					375						380					
Ser	Val	Gly	Tyr	Ala	Lys	Gly	Ile	Arg	Val	Met	Ser	Met	Thr	His	Thr	
385					390					395					400	
Gly	Glu	Pro	Gly	Phe	Met	Leu	Tyr	Ile	Pro	Ile	Glu	Gly	Met	Ile	Ser	
			405						410				415			
Leu	Val	Ala	Met	Pro	Ser	Cys	Ser	Arg	Ser	Arg	Met	Glu	Cys	Ile	Asn	
		420						425				430				
Ala	Ser	Pro	Cys	Ser	Ser	Trp	Thr	Thr	Met	Ile	Gln	Thr				
	435						440					445				

<210> 10629  
 <211> 1505  
 <212> DNA  
 <213> Homo sapiens

<400> 10629  
 gtaaaggaat gtcttttttaa ttcagctttt cttttctoca tgctagtgtt atcagggtttt 60  
 ggtattttatt tacttacagc atatgttatg aagctgggtt gaaaattggg tttagatata 120  
 tctgcaagtt tactactttg actgtaaaaa aaaaaaatga aaaagtagtt gacatctgtc 180  
 ctcagaagaa gtttgcaggt tgcataattg tgtgtaaata cacaggctaa aaggtaattt 240  
 atgttccttg ggaattgaaa tggtcagttg cccgttacag aaacttatca gtcatatatc 300  
 agcaccagtt cattcttttg caccttaggg accatctgtc ccctgaggtg acctgagaaa 360  
 caaccagttg cccacagact gttatttctt caagttagcc aggatttgat ttactgcct 420  
 tatattctat ttttagtgta cagtgtttg attttttgga aaaactaaat tttaaacata 480  
 tttgaaaaat gttataagac ttggacatta agtctgttga tagccaaagt cagtttacca 540  
 aagtaaaaca aataaattct atgcttcttc attgtcaaag agcagttctg catcatgttg 600  
 atataaatgg actatgtaaa gtgacatggg gcttactctc tacctaataa tagcctccct 660  
 cctgttccaa caagataacc aacaggtata tttaatttac cagttaatat gttttggata 720  
 attggctgcc ttgaaatgct atatgtttta tagtacatca tagctttagt tttcttcata 780  
 aggaaattac agttacatcc tggctaacat ggtgaaactc catctctact aaaaatacaa 840

09629469.072800

```

aaaattagcc gggcgtggtg gggggcactt gtagtcccag ctactcggga ggctgaggca 900
ggagaatggc gtgaaccacag gaggcggagg ttgcagttag ccgagatcgt gccactgtac 960
tctggcctgg gagacagagc gagactccat ctcaaaaaaa aaaaaaaaaa aaaaaaaaga 1020
gagagagaga cctggagtag agattctgtc aaagaacttt ttctttcttg agaagcatct 1080
gaaatggaat ctgttgtctc ttcgaaatat gtactgctgt aacagtgaag caaccctcag 1140
agtatgcctt cgtgtgggct actcgttgtg gttttgaact tgggggaact gtctgtgttt 1200
gggtcaagaa tatgcaactg gctgggcaca ttggctcacg cctgtaatcc cagcaatttg 1260
ggaggctgag gcaggcggat cacctgaggt cagggttca agaccagact ggccaacatg 1320
gtgaaacccc gtctctactg aaaatacaaa aattagctgg gcatggtggc aggtgcctgt 1380
aatcccagct actcgggagg ctgacgtgag agaatcgctt gaaccggga gttggagggt 1440
gcagttagcc gagattgcac cattgcactc cagcttgggc aacaagagtg aaactcttgt 1500
ctcag                                     1505

```

<210> 10630  
 <211> 1994  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (310).. (1899)

```

<400> 10630
aaatagatgt ttatcatttt ttatatagac tcattgaaaa aatgactttg tgttcttcca 60
gtacatacca tcatgtctga gagggcagag atctagacaa gtgtgggaaa gatgactttg 120
gatcaaaatt ttcttgtgaa tataatgtgc ttatgcgtaa tttaaagctg actgtattaa 180
agatacattt tttgtcaacc agatgattgt taaataacctg tgaagtatgt gtggcccggt 240
cctatttcct cactgtttta cagtgaatca gacgtcccaa tagatgtgga gacggtcaca 300
tcaacgccta tgccactcta tgacaatcag aaggcacgca gcgtgatgaa tgagtgtgaa 360
cggcatgtca tctttgccag gactgatgca gatgccctc ctccaccaga ggactgggag 420
gagcatgtca acaggactgg ctggacaatg gccagaaca agctattcaa caagatcctc 480
aaagccctgc agtctgaccg gcttgccgcg ttggccaacg aaggggcttg taatgagcca 540
gtgctgcgcc gtgttgctgt ggacaagtgt gcaaggagag tgcggcaggc tctggcaagt 600
gtgagctggg ataccaagct gatccagtgg ctgcacacca cccttgtgga gaccttgagt 660
ctgcccagtc tggcagccta cctggatgct ttgcagacgc tgaaggggaa gatcccaacc 720
ttgattgacc ggatgcttgt gtcatccaac acaaagactg gggctgcggg agctgaggcc 780
ttgtctctcc tactgaagag gccctgggac cctgctgtgg gtgtgctttc tcataacaaa 840
ccaagcaaac tccctggctc tccgctgatt ctcatcgctt cctctggtcc ctccagctct 900
gtgtttccca cttcacgccg ccaccgcttc tggcaatctc agctgtcctg cttgggcaag 960
gtcatccctg tagccaccca tctgctgaac aatggcagtg gggtaggagt tctacagtgt 1020
ctcgagcata tgattggggc agtgagaagc aaagtgtgg agattcacag ccatttccca 1080
caciaaccca ttatcttgat tggctggaac acaggagctt tggtagcctg tcatgtgtca 1140
gtaatggagt atgtcactgc agttgtctgc cttgggtttc ctctgcttac tgtggatggc 1200
cccagagggg atgtagatga tccccctttg gatatgaaga ctccagtcct ctttgtcatt 1260
ggtcagaatt cccttcaatg tcaccctgaa gccatggagg acttccggga gaagattcga 1320
gctgagaaca gcttgggtgt ggttggggga gctgatgaca atctcagaat aagcaaagca 1380
aagaagaaat cagaagggtt gactcagagc atgggtggaca gatgtattca ggatgagatt 1440

```

```

gtggactttc tgactggagt gctcactcgt gctgagggtc acatgggctc tgaacctogg 1500
gatcaggatg ctgagaagaa gaagaagccc cgcgatgtgg cccgcagaga ctiggccttt 1560
gaagtccttg agcggggcag tgcacctgcc tccccagctg ccaagctgcc cgcctcacco 1620
tcaggctcag aggggtctctc cagtgtgtcc agcagcccca cctccagtcc caagacaaaa 1680
gtgaccacag tgacctctgc ccagaagtcc agtcagattg gaagttctca gctgctgaag 1740
agacatgtgc agcggacaga agctgtgctg acccacaac aagctcaagt tccatttca 1800
tcagaaccac cagaggaagg agagaaagag gatcttaggg ttcagctgaa gcgacaccat 1860
ccctcgagtc cccttcctgt ctactcttgg tttcaccact agaacagtct tgggctggat 1920
gggttataga gctgagcggc tgtgatggtt ctgtttttac attaacaaaa acaattaaaa 1980
acaccaaaaa caac 1994

```

<210> 10631  
 <211> 530  
 <212> PRT  
 <213> Homo sapiens

<400> 10631

Met	Pro	Leu	Tyr	Asp	Asn	Gln	Lys	Ala	Arg	Ser	Val	Met	Asn	Glu	Cys
1				5					10					15	
Glu	Arg	His	Val	Ile	Phe	Ala	Arg	Thr	Asp	Ala	Asp	Ala	Pro	Pro	Pro
			20					25					30		
Pro	Glu	Asp	Trp	Glu	Glu	His	Val	Asn	Arg	Thr	Gly	Trp	Thr	Met	Ala
		35					40					45			
Gln	Asn	Lys	Leu	Phe	Asn	Lys	Ile	Leu	Lys	Ala	Leu	Gln	Ser	Asp	Arg
	50					55					60				
Leu	Ala	Arg	Leu	Ala	Asn	Glu	Gly	Ala	Cys	Asn	Glu	Pro	Val	Leu	Arg
65					70				75					80	
Arg	Val	Ala	Val	Asp	Lys	Cys	Ala	Arg	Arg	Val	Arg	Gln	Ala	Leu	Ala
				85				90						95	
Ser	Val	Ser	Trp	Asp	Thr	Lys	Leu	Ile	Gln	Trp	Leu	His	Thr	Thr	Leu
			100				105						110		
Val	Glu	Thr	Leu	Ser	Leu	Pro	Met	Leu	Ala	Ala	Tyr	Leu	Asp	Ala	Leu
	115					120						125			
Gln	Thr	Leu	Lys	Gly	Lys	Ile	Pro	Thr	Leu	Ile	Asp	Arg	Met	Leu	Val
	130					135					140				
Ser	Ser	Asn	Thr	Lys	Thr	Gly	Ala	Ala	Gly	Ala	Glu	Ala	Leu	Ser	Leu
145				150					155					160	
Leu	Leu	Lys	Arg	Pro	Trp	Asp	Pro	Ala	Val	Gly	Val	Leu	Ser	His	Asn
			165					170					175		
Lys	Pro	Ser	Lys	Leu	Pro	Gly	Ser	Pro	Leu	Ile	Leu	Ile	Ala	Ser	Ser
			180				185						190		
Gly	Pro	Ser	Ser	Ser	Val	Phe	Pro	Thr	Ser	Arg	Arg	His	Arg	Phe	Trp
	195					200						205			
Gln	Ser	Gln	Leu	Ser	Cys	Leu	Gly	Lys	Val	Ile	Pro	Val	Ala	Thr	His
	210					215					220				
Leu	Leu	Asn	Asn	Gly	Ser	Gly	Val	Gly	Val	Leu	Gln	Cys	Leu	Glu	His
225				230					235					240	

09629469.072300

-4118/13211-

Met Ile Gly Ala Val Arg Ser Lys Val Leu Glu Ile His Ser His Phe  
245 250 255  
Pro His Lys Pro Ile Ile Leu Ile Gly Trp Asn Thr Gly Ala Leu Val  
260 265 270  
Ala Cys His Val Ser Val Met Glu Tyr Val Thr Ala Val Val Cys Leu  
275 280 285  
Gly Phe Pro Leu Leu Thr Val Asp Gly Pro Arg Gly Asp Val Asp Asp  
290 295 300  
Pro Leu Leu Asp Met Lys Thr Pro Val Leu Phe Val Ile Gly Gln Asn  
305 310 315 320  
Ser Leu Gln Cys His Pro Glu Ala Met Glu Asp Phe Arg Glu Lys Ile  
325 330 335  
Arg Ala Glu Asn Ser Leu Val Val Val Gly Gly Ala Asp Asp Asn Leu  
340 345 350  
Arg Ile Ser Lys Ala Lys Lys Lys Ser Glu Gly Leu Thr Gln Ser Met  
355 360 365  
Val Asp Arg Cys Ile Gln Asp Glu Ile Val Asp Phe Leu Thr Gly Val  
370 375 380  
Leu Thr Arg Ala Glu Gly His Met Gly Ser Glu Pro Arg Asp Gln Asp  
385 390 395 400  
Ala Glu Lys Lys Lys Lys Pro Arg Asp Val Ala Arg Arg Asp Leu Ala  
405 410 415  
Phe Glu Val Pro Glu Arg Gly Ser Arg Pro Ala Ser Pro Ala Ala Lys  
420 425 430  
Leu Pro Ala Ser Pro Ser Gly Ser Glu Gly Leu Ser Ser Val Ser Ser  
435 440 445  
Ser Pro Thr Ser Ser Pro Lys Thr Lys Val Thr Thr Val Thr Ser Ala  
450 455 460  
Gln Lys Ser Ser Gln Ile Gly Ser Ser Gln Leu Leu Lys Arg His Val  
465 470 475 480  
Gln Arg Thr Glu Ala Val Leu Thr His Lys Gln Ala Gln Val Pro Ile  
485 490 495  
Ser Ser Glu Pro Pro Glu Glu Gly Glu Lys Glu Asp Leu Arg Val Gln  
500 505 510  
Leu Lys Arg His His Pro Ser Ser Pro Leu Pro Val Tyr Ser Trp Phe  
515 520 525  
His His  
530

<210> 10632

<211> 2266

<212> DNA

<213> Homo sapiens

<400> 10632

ttttgttgtt gttacttgtt tgtttgaaat aatatttagcc taaatttgac attcacactg 60  
agtatcagta aggtcatgg tttttaaac ttgtgctttc ttattttttt caaactaatt 120

09629469.072300

```

tcagacttaa atagaagtta caagaatagt acagggagtt tcatgtaccc ttcacccaaa 180
ttcctcaagt gttaacattt taccacattt ataggttttt ttctgataca cttgagagta 240
agtttcaggt agatgtccct ttactttctaa atatttcagt gtgtattttc taaaaaacag 300
ggatattccc ttatagaatc atagttttat tatcaaaatc aggaaattta ataattatat 360
gtctcatcta actatagatc ttattagtat ttcaactattc ttctaattctc tttagagcaa 420
aatggaaaaa aatgggtttt ctgtttctgt gcaggatcca gcggaggctc acgtgctgta 480
ttggattatc acatccittaa tgtttcttaa tctgaaatcg ttcccaagtc ttgtttattca 540
tgaccctgac tgacattttt ttaagagtaa aaacactagg ggggattttt tgttgttttt 600
tgtttcattt tgttttttgt ttctgtttgt tttttgtctt ttgttttttt ttgagccagg 660
gtctcactct gtcaccagg ctggagtgc atggtgcgat ctcagttcac tggaaacctcc 720
acctccagg ctcaagtgat cctccacct cagcctcca aggagctggg actacaggct 780
acagccaaca tgcccagcta atttttgtat tttttgtaga gacaggattt cgccatgttg 840
cccaggctgg tctcaaactc atccaatccg ccaaccttca ccttgacctc ccaaagtgg 900
gggactacag gcgtgagcca ctgcaccgg ccaaagacc attcttttat aaaatgtccc 960
tccctcaatt tggattttat tgatgtttt toataattcg atttaggttc tgcatttggg 1020
gcaggaatag caatgaagta atgatgtgtc ctctgtgtat catgcaagga ggtttacaaa 1080
gtctacttgt gccgttactt atgatgctaa ttttaatcac atggttaagg tgtctgcagc 1140
cttatgcttt ccagtttcc ctggtttact aaccattcca ttaatgaatt tacaaagtaa 1200
gcaaatgta tatttcccaa gtcagttcct gactgttttc tccataaata aatccttgcg 1260
tgctgttgtc aacctaaact atgaaatgct ctaaaaataa tcccttgctg ctgttgtcaa 1320
cctaaactat gaaatgctct gggattctgt cctgtgctgt tgggtgcat caagatgcca 1380
aaccacgaa ccaagtattt tgtcaaatga actgagtcct caggacatt gaggcattgc 1440
tgcatttagc tcaaaaggta gaagtctcac aaaactgata ctagcgaata tcatgttact 1500
gaaaattctt ggttattcag gcgttcctag ctatgtataa gtgcttccta cctacatata 1560
acgtctttct tctatgcaca tcatctcagg taccaaatag acagtattat ttaaaatccc 1620
ccttgacat tttatgctca gtttttcaga ccatggaaat ctacacctat gatgctcttc 1680
caagatcact gggcattttt ttgtagttaa gtaagtgact tatttaattt gcaattctca 1740
attatttcat ttatatgtaa acttttttac gagacacaag gttccactct gtcaccagg 1800
caaatggtac aatccaatgg tacgatcata tctcactgca gttgtgaact cctgggctca 1860
agagatcatc ctctgtctc agcctcccaa gtagccagga ttacagacac acaccaccat 1920
gccagctat ttttttttt ttttttttaa tacacagggt ctcaactatg tcccaggct 1980
gatctcaaac tccatgcctc aagcaacct cccactttgg gaggtcaagg catacgtatc 2040
acctgaggtt gggagtctga gaccaacct acgaacatgg agaaacctg tctctactaa 2100
aaatataaaa ttagccagg gtggtggcgc atgcctgtaa tcccagctac tggggaggct 2160
aaggcaggag aattgcttga acccaggagg cagagattgc agtgagccga gatcacgcca 2220
ttgcactcca gcctgggcaa caagcaaac tccatctcaa aaaaat 2266

```

<210> 10633  
 <211> 1262  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (152).. (517)

<400> 10633

```

tattagcaga ctggaatgaa gatatagaag catttgaaat gatggagaag gatgagctat 60
gacttgctaa acaatctgtt ggtaggtatt taaaaagaaa aggtaaactg tgtgtgggta 120
atagacatcc taatactaag caggctttct aatgggaggc ttttaagtatg gtgatgaaca 180
accacgttct gactggcgta gttatcgtag gaatctggag catgctgtgt tagaattgac 240
cttgttttaa actgtcccat caaaaatgga aatccacagt tcccccttca aatgcagcac 300
tgcaccaccc tgcaacacct caggccaggg aaagattact gagcattcct gcgaaccaga 360
tttctgttgt ctctggatag acaagaaaca aaattcattt agtagtggag tggggaatag 420
gagtttggat agccttctaa ttaaaggaag ctgcctttc ttggttttgg gggtttagagg 480
ctcttttggg aagatgcac cgagtattgt ggcattctga ttatgctgcc ttcacaaaac 540
actctaagtg acctaagtgg ttatgaagca aatgcattta tggtgaaaac agtctttgct 600
cattgctttc tcttgtttca tttagtgaac aatgatcaag atgacttgat tttttttcct 660
tcttaacaat gtctttttta tttaaaccaa aggtgaagcc agtgtacttt ctcagtgagt 720
tctctgcata aagactaatc agtgggacca ggtaaaaagg tcatataata cattgtggag 780
attgcttact taatacttct gaaaaatgga gtaagggaga aactgtaatg ttgcaatatg 840
aacctcccat tgggccttcc atagggaaaag ctgtgactac totgaaatgg aacctagcat 900
tatatccttg taggtagat tataaatcat ttccagttca tttctcttag aggtgattac 960
ctctagccat cagccttact ccattcccatg tttggtagtc aatttgagcc acaaggctcg 1020
tatcgccaac agctatatac attttgttcc atttttctgt cttacagagc catgataaaa 1080
ctgtggttag tgagttaaaa ttcttgaggt aactactgtt tttctccttt gaaacttagg 1140
tttctaaagt tgcacctaag gaatctgtca cattttctgt tgaatcatgg tttttgtttt 1200
tgtttttaac agatattcct tctgatacgg acttgaaaat tagtgtatgg tgacctgtgt 1260
tt

```

<210> 10634  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

```

<400> 10634
Met Gly Gly Phe Lys Tyr Gly Asp Glu Gln Pro Arg Ser Asp Trp Arg
  1           5           10           15
Ser Tyr Arg Arg Asn Leu Glu His Ala Val Leu Glu Leu Thr Leu Phe
          20           25           30
Lys Thr Val Pro Ser Lys Met Glu Ile His Ser Ser Pro Phe Lys Cys
          35           40           45
Ser Thr Ala Pro Pro Cys Asn Thr Ser Gly Gln Gly Lys Ile Thr Glu
          50           55           60
His Ser Cys Glu Pro Asp Phe Cys Cys Leu Trp Ile Asp Lys Lys Gln
          65           70           75           80
Asn Ser Phe Ser Ser Gly Val Gly Asn Arg Ser Leu Asp Ser Leu Leu
          85           90           95
Ile Lys Gly Ser Ser Pro Phe Leu Val Leu Gly Val Arg Gly Ser Phe
          100          105          110
Gly Lys Met His Pro Ser Ile Val Ala Phe
          115          120

```

008270.69462960

<210> 10635  
<211> 1505  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (120).. (1169)

<400> 10635

```
gtgttcgggc cgatcccacc ttttctcgac cctggacgtc taccttccgg aggcccacat 60
cttgcccact ccgcgcgcgg ggctagcgcg ggtttcagcg acgggagccc tcaagggaca 120
tggcaactac agcggcgccg gcgggcgggc cccgaaatgg agctggcccc gaatggggag 180
ggttcgaaga aaacatccag ggccggaggct cagctgtgat tgacatggag aacatggatg 240
atacttcagg ctctagcttc gaggatatgg gtgagctgca tcagcgccctg cgcgaggaag 300
aagtagacgc tgatgcagct gatgcagctg ctgctgaaga ggaggatgga gagttcctgg 360
gcatgaaggg ctttaaggga cagctgagcc ggacaggtggc agatcagatg tggcaggctg 420
ggaaaagaca agcctccagg gccttcagct tgtacgcaa catcgacatc ctcagaccct 480
actttgatgt ggagcctgct cagggtgcga gcaggctcct ggagtccatg atccctatca 540
aggtgggtcaa cttcccccag aaaattgcag gtgaactota tggacctctc atgctgggtc 600
tcactctggg tgctatccta ctccatggga tgaagacgtc tgacactatt atccgggagg 660
gcaccctgat gggcacagcc attggcacct gcttcgggta ctggctggga gtctcatcct 720
tcatttactt ccttgccctac ctgtgcaacg ccagatcac catgctgcag atgttggcac 780
tgctgggcta tggcctcttt gggcattgca ttgtcctgtt catcacctat aatatccacc 840
tccacgccct cttctacctc ttctggctgt tgggtgggtgg actgtccaca ctgcgcatgg 900
tagcagtgtt ggtgtctcgg accgtggggc ccacacagcg gctgctcctc tgtggcacc 960
tggctgccct acacatgctc ttctgtctct atctgcattt tgctaccac aaagtggtag 1020
aggggatcct ggacacactg gagggcccca acatcccgcc catccagagg gtccccagag 1080
acatccctgc catgctccct gctgctcggc ttcccaccac cgtcctcaac gccacagcca 1140
aagctgttgc ggtgaccctg cagtcacact gacccacact gaaattcttg gccagtcctc 1200
tttcccgcag ctgcagagag gaggaagact attaaaggac agtcctgatg acatgtttcg 1260
tagatggggt ttgcagctgc cactgagctg tagctgcgtg agtacctcct tgatgcctgt 1320
cggcacttct gaaaggcaca aggccaagaa ctcttgcca ggactgcaag gctctgcagc 1380
caatgcagaa aatgggtcag ctcttttgag aacccctccc cacctacccc ttcttctc 1440
tttatctctc ccacattgtc ttgctaaata tagacttggg aattaaaatg ttgattgaag 1500
tctgg 1505
```

<210> 10636  
<211> 350  
<212> PRT  
<213> Homo sapiens

<400> 10636

```
Met Ala Thr Thr Ala Ala Pro Ala Gly Gly Ala Arg Asn Gly Ala Gly
  1           5           10           15
Pro Glu Trp Gly Gly Phe Glu Glu Asn Ile Gln Gly Gly Gly Ser Ala
          20           25           30
```

09629459.072300



-4122/13211-

Val Ile Asp Met Glu Asn Met Asp Asp Thr Ser Gly Ser Ser Phe Glu  
35 40 45  
Asp Met Gly Glu Leu His Gln Arg Leu Arg Glu Glu Glu Val Asp Ala  
50 55 60  
Asp Ala Ala Asp Ala Ala Ala Ala Glu Glu Glu Asp Gly Glu Phe Leu  
65 70 75 80  
Gly Met Lys Gly Phe Lys Gly Gln Leu Ser Arg Gln Val Ala Asp Gln  
85 90 95  
Met Trp Gln Ala Gly Lys Arg Gln Ala Ser Arg Ala Phe Ser Leu Tyr  
100 105 110  
Ala Asn Ile Asp Ile Leu Arg Pro Tyr Phe Asp Val Glu Pro Ala Gln  
115 120 125  
Val Arg Ser Arg Leu Leu Glu Ser Met Ile Pro Ile Lys Val Val Asn  
130 135 140  
Phe Pro Gln Lys Ile Ala Gly Glu Leu Tyr Gly Pro Leu Met Leu Val  
145 150 155 160  
Phe Thr Leu Val Ala Ile Leu Leu His Gly Met Lys Thr Ser Asp Thr  
165 170 175  
Ile Ile Arg Glu Gly Thr Leu Met Gly Thr Ala Ile Gly Thr Cys Phe  
180 185 190  
Gly Tyr Trp Leu Gly Val Ser Ser Phe Ile Tyr Phe Leu Ala Tyr Leu  
195 200 205  
Cys Asn Ala Gln Ile Thr Met Leu Gln Met Leu Ala Leu Leu Gly Tyr  
210 215 220  
Gly Leu Phe Gly His Cys Ile Val Leu Phe Ile Thr Tyr Asn Ile His  
225 230 235 240  
Leu His Ala Leu Phe Tyr Leu Phe Trp Leu Leu Val Gly Gly Leu Ser  
245 250 255  
Thr Leu Arg Met Val Ala Val Leu Val Ser Arg Thr Val Gly Pro Thr  
260 265 270  
Gln Arg Leu Leu Leu Cys Gly Thr Leu Ala Ala Leu His Met Leu Phe  
275 280 285  
Leu Leu Tyr Leu His Phe Ala Tyr His Lys Val Val Glu Gly Ile Leu  
290 295 300  
Asp Thr Leu Glu Gly Pro Asn Ile Pro Pro Ile Gln Arg Val Pro Arg  
305 310 315 320  
Asp Ile Pro Ala Met Leu Pro Ala Ala Arg Leu Pro Thr Thr Val Leu  
325 330 335  
Asn Ala Thr Ala Lys Ala Val Ala Val Thr Leu Gln Ser His  
340 345 350

<210> 10637

<211> 1581

<212> DNA

<213> Homo sapiens

<220>

09629469.072800

<221> CDS  
<222> (87).. (614)

<400> 10637

```

accgtggtgc cgagtgcctg ctgccttggg ccgccttgaa cctccagggt ttccagctcc 60
tcctccttca cccagtgcc actgccatga tggatgtgag tgaacttggg gagtctgccc 120
gctacctccg ccagggtac caggagatga cgaagggtga cactatccca tgggacggga 180
agaagcgagt ctgggtgcct gatgaacagg acgcctacgt ggaggccgag gtcaagtcgg 240
aggctaccgg gggcagagtc accgtggaga ccaaagacca gaagggtgct atggtgcgtg 300
aagccgagct gcagcccatg aaccgcctc gcttcgactt actggaggac atggccatga 360
tgacgcacct gaacgaggcc tctgtgctgc acaacctgog ccagcgctat gcccgctgga 420
tgatctatac ctactcaggc ctcttctgtg tcaccatcaa cccctacaaa tggctcccag 480
tctatacggc ctccgtagt gctgcttaca agggaaagcg ccgctcagat tccccgcccc 540
atatatatgc ggtggcggac aacgcctaca acgacatgct gcgcaaccga gacaaccagt 600
ccatgctgat cactgtagtg tggggctctg ggggtggggg ggaaaatgct ggccatcttg 660
cagaaagagg gcgttaccac agtcatttcc caggattgaa tccaaagtgc ttaggccagg 720
acttttacca cctggagcta gtgtcccagc tgaagctaaa attggcctga gcactttccc 780
tgccccatt ctgaacagat gtgttcttga tgggggatag ggaggggaca cccacaaacg 840
gagtgaccac cagccccaca cctcctctcc ccggggcctg gaatctccca ccttgatcct 900
ctggggttct aattctggct caggggcagc ggaaagattc ctctgctttt cctccttttt 960
accatctact tatgtctgaa tcttacctct gatctttcca ttgcctctgt gggaaaatgg 1020
tagaataatt cttacatgcc aggctcatgt ccagtcaggc caatatggac aatgtttagt 1080
gtgagtgtgc atgcgcgtat gcagttaaga gcaagtgcct tggccgggca cagtggctca 1140
tgcccgtaat ttctgcactt tgggagactg aggtgggtgg atcacttgac gtcaggagtt 1200
cgagaccagc ctggccaaca tgggtgaaacc ccatctctac taaaaataca aaaaattagc 1260
cgggcgtggt ggcaggtgcc tgtaatcca gctactcagg aggctgaggc aggagaattg 1320
cttgaaccca ggaggcggag gttgccgtga gccaaatca cgcactgca ctccagcctg 1380
ggccacagaa tgagactcca tctcacgaaa aaaaaaaaaa aaaaaaaaaa aaaagcaagt 1440
acctttaacc cagacggggc cggctgagtg tgggtgctca cacctgtaat cccagcactt 1500
ggggaggctg aggcaggagg attgcctgag gccaggggtt tgagaccagc ctgagcaaca 1560
tagcgagacc ccatctttac c

```

<210> 10638  
<211> 176  
<212> PRT  
<213> Homo sapiens

<400> 10638

```

Met Met Asp Val Ser Glu Leu Gly Glu Ser Ala Arg Tyr Leu Arg Gln
 1             5             10             15
Gly Tyr Gln Glu Met Thr Lys Val His Thr Ile Pro Trp Asp Gly Lys
          20          25          30
Lys Arg Val Trp Val Pro Asp Glu Gln Asp Ala Tyr Val Glu Ala Glu
          35          40          45
Val Lys Ser Glu Ala Thr Gly Gly Arg Val Thr Val Glu Thr Lys Asp
          50          55          60
Gln Lys Val Leu Met Val Arg Glu Ala Glu Leu Gln Pro Met Asn Pro

```

65					70					75					80
Pro	Arg	Phe	Asp	Leu	Leu	Glu	Asp	Met	Ala	Met	Met	Thr	His	Leu	Asn
				85					90					95	
Glu	Ala	Ser	Val	Leu	His	Asn	Leu	Arg	Gln	Arg	Tyr	Ala	Arg	Trp	Met
			100					105					110		
Ile	Tyr	Thr	Tyr	Ser	Gly	Leu	Phe	Cys	Val	Thr	Ile	Asn	Pro	Tyr	Lys
		115					120					125			
Trp	Leu	Pro	Val	Tyr	Thr	Ala	Ser	Val	Val	Ala	Ala	Tyr	Lys	Gly	Lys
	130					135					140				
Arg	Arg	Ser	Asp	Ser	Pro	Pro	His	Ile	Tyr	Ala	Val	Ala	Asp	Asn	Ala
145					150					155				160	
Tyr	Asn	Asp	Met	Leu	Arg	Asn	Arg	Asp	Asn	Gln	Ser	Met	Leu	Ile	Thr
				165					170					175	

<210> 10639  
<211> 2596  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (111).. (2465)

<400> 10639  
aatgaagaac agctggaaga tatgagacag gaacttgtac gacaatacca agaacatcaa 60  
caggcaacgg aattgttaag gcaagcacat atgcggcaga aggagagaca atgaccaaga 120  
cagacaagag ctcgagtggg gctaaaaaga aggacttctc cagcaaggga gccgaggata 180  
atatggtaac gagctataat tgtcagttct gtgacttccg atattccaaa agccatggcc 240  
ctgatgtaat tgtagtgggg ccacttctcc gtcattatca acagctccat aacattcaca 300  
agtgtacat taaacactgt ccattctgtc ccagaggact ttgcagccca gaaaagcacc 360  
ttggagaaat tacttatccg ttgtcttgta gaaaaagtaa ttgttcccac tgtgcaactc 420  
tgcttctgca ctgtctctct ggggcggctg gaagctcgcg agtcaaacat cagtgccatc 480  
agtgttcatt caccaccctt gacgtagatg tactcctctt tcactatgaa agtgtgcatg 540  
agtcccaagc atcggatgtc aaacaagaag caaatcacct gcaaggatcg gatgggcagc 600  
agtctgtcaa ggaaagcaaa gaacactcat gtaccaaatg tgattttatt acccaagtgg 660  
aagaagagat ttcccgacac tacaggagag cacacagctg ctacaaatgc cgtcagtgca 720  
gttttacagc tgccgatact cagtcaactac tggagcaact caaacactgtt cactgccagg 780  
aacaggacat cactacagcc aacggcgaag aggacggtca tgccatatcc accatcaaag 840  
aggagcccaa aattgacttc aggtcttaca atctgctaac tccagactct aaaatgggag 900  
agccagtttc tgagagtgtg gtgaagagag agaagctgga agagaaggac gggctcaaag 960  
agaaaagttt gaccgagagt tccagtgtat accttcgcaa tgtgacttgg agaggggcag 1020  
acatcctgcg ggggagtccg tcatacacc aagcaagcct ggggctgctg acgcctgtgt 1080  
ctggcaccca agagcagaca aagactctaa gggatagtcc caatgtggag gccgccatc 1140  
tggcgcgacc tatttatggc ttggctgttg aaaccaaggg attcctgcag ggggcgccag 1200  
ctggcggaga gaagtctggg gccctcccc agcagtatcc tgcacggga gaaaacaagt 1260  
ccaaggatga atcccagtc ctgttacgga ggctagagg ctccggtgtt ttttgtcca 1320  
attgcctgac cacaaagacc tctctctggc gaaagaatgc aaatggcgga tatgtatgca 1380

```

acgcgtgtgg cctctaccag aagcttcaact cgactcccag gcctttaaac atcattaaac 1440
aaaacaacgg tgagcagatt attaggagga gaacaagaaa gcgccttaac ccagaggcac 1500
ttcaggctga gcagctcaac aaacagcaga ggggcagcaa tgaggagcaa gtcaatggaa 1560
gcccgttaga gaggaggta gaagatcatc taactgaaag tcaccagaga gaaattccac 1620
tccccagcct aagtaaatac gaagcccagg gttcattgac taaaagccat tctgctcagc 1680
agccagtcct ggtcagccaa actctggata ttcacaaaag gatgcaacct ttgcacattc 1740
agataaaaag tcctcaggaa agtactggag atccaggaaa tagttcatcc gtatctgaag 1800
ggaaaggaag ttccgagaga ggcagtccta tagaaaagta catgagacct gcgaaacacc 1860
caaattattc accaccaggc agccctattg aaaagtacca gtaccactt tttggacttc 1920
cctttgtaca taatgacttc cagagtgaag ctgattggct gcggttctgg agtaaataata 1980
agctctccgt tcctgggaat ccgcactact tgagtcacgt gcctggccta ccaaatcctt 2040
gccaaaacta tgtgccttat ccacacttca atctgcctcc tcatttttca gctgttggat 2100
cagacaatga cattcctcta gatttggcga tcaagcattc cagacctggg ccaactgcaa 2160
acggtgcctc caaggagaaa acgaaggcac caccaaatgt aaaaaatgaa ggtcccttga 2220
atgtagtaaa aacagagaaa gttgatagaa gtactcaaga tgaactttca acaaaatgtg 2280
tgcaactgtg cattgtcttt ctggatgaag tgatgtatgc tttgcatatg agttgccatg 2340
gtgacagtgg acctttccag tgcagcatat gccagcatct ttgcacggac aaatatgact 2400
tcacaacaca tatccagagg ggcttgcata ggaacaatgc acaagtggaa aaaaaatgga 2460
aaacctaaag agtaaaacct tagcacttag cacaattaaa tagaaatagg ttttcttgat 2520
gggaattcaa tagcttgtaa tgtcttatga agacctatta aaaaaatact tcatagagcc 2580
tgccctatcc aacatg                                     2596

```

<210> 10640  
 <211> 785  
 <212> PRT  
 <213> Homo sapiens

<400> 10640

Met	Thr	Lys	Thr	Asp	Lys	Ser	Ser	Ser	Gly	Ala	Lys	Lys	Lys	Asp	Phe
1				5					10					15	
Ser	Ser	Lys	Gly	Ala	Glu	Asp	Asn	Met	Val	Thr	Ser	Tyr	Asn	Cys	Gln
			20					25					30		
Phe	Cys	Asp	Phe	Arg	Tyr	Ser	Lys	Ser	His	Gly	Pro	Asp	Val	Ile	Val
		35					40					45			
Val	Gly	Pro	Leu	Leu	Arg	His	Tyr	Gln	Gln	Leu	His	Asn	Ile	His	Lys
	50					55					60				
Cys	Thr	Ile	Lys	His	Cys	Pro	Phe	Cys	Pro	Arg	Gly	Leu	Cys	Ser	Pro
65					70				75					80	
Glu	Lys	His	Leu	Gly	Glu	Ile	Thr	Tyr	Pro	Phe	Ala	Cys	Arg	Lys	Ser
			85					90						95	
Asn	Cys	Ser	His	Cys	Ala	Leu	Leu	Leu	His	Leu	Ser	Pro	Gly	Ala	
			100					105				110			
Ala	Gly	Ser	Ser	Arg	Val	Lys	His	Gln	Cys	His	Gln	Cys	Ser	Phe	Thr
	115					120					125				
Thr	Pro	Asp	Val	Asp	Val	Leu	Phe	His	Tyr	Glu	Ser	Val	His	Glu	
	130					135				140					
Ser	Gln	Ala	Ser	Asp	Val	Lys	Gln	Glu	Ala	Asn	His	Leu	Gln	Gly	Ser

09629469.072300

145					150					155					160
Asp	Gly	Gln	Gln	Ser	Val	Lys	Glu	Ser	Lys	Glu	His	Ser	Cys	Thr	Lys
				165					170					175	
Cys	Asp	Phe	Ile	Thr	Gln	Val	Glu	Glu	Glu	Ile	Ser	Arg	His	Tyr	Arg
			180					185					190		
Arg	Ala	His	Ser	Cys	Tyr	Lys	Cys	Arg	Gln	Cys	Ser	Phe	Thr	Ala	Ala
		195					200					205			
Asp	Thr	Gln	Ser	Leu	Leu	Glu	His	Phe	Asn	Thr	Val	His	Cys	Gln	Glu
	210					215					220				
Gln	Asp	Ile	Thr	Thr	Ala	Asn	Gly	Glu	Glu	Asp	Gly	His	Ala	Ile	Ser
225					230					235					240
Thr	Ile	Lys	Glu	Glu	Pro	Lys	Ile	Asp	Phe	Arg	Val	Tyr	Asn	Leu	Leu
			245						250					255	
Thr	Pro	Asp	Ser	Lys	Met	Gly	Glu	Pro	Val	Ser	Glu	Ser	Val	Val	Lys
			260					265					270		
Arg	Glu	Lys	Leu	Glu	Glu	Lys	Asp	Gly	Leu	Lys	Glu	Lys	Val	Trp	Thr
		275					280					285			
Glu	Ser	Ser	Ser	Asp	Asp	Leu	Arg	Asn	Val	Thr	Trp	Arg	Gly	Ala	Asp
	290				295						300				
Ile	Leu	Arg	Gly	Ser	Pro	Ser	Tyr	Thr	Gln	Ala	Ser	Leu	Gly	Leu	Leu
305					310					315					320
Thr	Pro	Val	Ser	Gly	Thr	Gln	Glu	Gln	Thr	Lys	Thr	Leu	Arg	Asp	Ser
				325					330					335	
Pro	Asn	Val	Glu	Ala	Ala	His	Leu	Ala	Arg	Pro	Ile	Tyr	Gly	Leu	Ala
			340					345					350		
Val	Glu	Thr	Lys	Gly	Phe	Leu	Gln	Gly	Ala	Pro	Ala	Gly	Gly	Glu	Lys
		355					360					365			
Ser	Gly	Ala	Leu	Pro	Gln	Gln	Tyr	Pro	Ala	Ser	Gly	Glu	Asn	Lys	Ser
	370					375					380				
Lys	Asp	Glu	Ser	Gln	Ser	Leu	Leu	Arg	Arg	Arg	Arg	Gly	Ser	Gly	Val
385					390					395					400
Phe	Cys	Ala	Asn	Cys	Leu	Thr	Thr	Lys	Thr	Ser	Leu	Trp	Arg	Lys	Asn
			405					410						415	
Ala	Asn	Gly	Gly	Tyr	Val	Cys	Asn	Ala	Cys	Gly	Leu	Tyr	Gln	Lys	Leu
			420				425						430		
His	Ser	Thr	Pro	Arg	Pro	Leu	Asn	Ile	Ile	Lys	Gln	Asn	Asn	Gly	Glu
		435					440					445			
Gln	Ile	Ile	Arg	Arg	Arg	Thr	Arg	Lys	Arg	Leu	Asn	Pro	Glu	Ala	Leu
	450					455					460				
Gln	Ala	Glu	Gln	Leu	Asn	Lys	Gln	Gln	Arg	Gly	Ser	Asn	Glu	Glu	Gln
465					470					475					480
Val	Asn	Gly	Ser	Pro	Leu	Glu	Arg	Arg	Ser	Glu	Asp	His	Leu	Thr	Glu
				485					490					495	
Ser	His	Gln	Arg	Glu	Ile	Pro	Leu	Pro	Ser	Leu	Ser	Lys	Tyr	Glu	Ala
			500				505					510			
Gln	Gly	Ser	Leu	Thr	Lys	Ser	His	Ser	Ala	Gln	Gln	Pro	Val	Leu	Val
	515					520						525			
Ser	Gln	Thr	Leu	Asp	Ile	His	Lys	Arg	Met	Gln	Pro	Leu	His	Ile	Gln

09629469.072800

530 535 540  
 Ile Lys Ser Pro Gln Glu Ser Thr Gly Asp Pro Gly Asn Ser Ser Ser  
 545 550 555 560  
 Val Ser Glu Gly Lys Gly Ser Ser Glu Arg Gly Ser Pro Ile Glu Lys  
 565 570 575  
 Tyr Met Arg Pro Ala Lys His Pro Asn Tyr Ser Pro Pro Gly Ser Pro  
 580 585 590  
 Ile Glu Lys Tyr Gln Tyr Pro Leu Phe Gly Leu Pro Phe Val His Asn  
 595 600 605  
 Asp Phe Gln Ser Glu Ala Asp Trp Leu Arg Phe Trp Ser Lys Tyr Lys  
 610 615 620  
 Leu Ser Val Pro Gly Asn Pro His Tyr Leu Ser His Val Pro Gly Leu  
 625 630 635 640  
 Pro Asn Pro Cys Gln Asn Tyr Val Pro Tyr Pro Thr Phe Asn Leu Pro  
 645 650 655  
 Pro His Phe Ser Ala Val Gly Ser Asp Asn Asp Ile Pro Leu Asp Leu  
 660 665 670  
 Ala Ile Lys His Ser Arg Pro Gly Pro Thr Ala Asn Gly Ala Ser Lys  
 675 680 685  
 Glu Lys Thr Lys Ala Pro Pro Asn Val Lys Asn Glu Gly Pro Leu Asn  
 690 695 700  
 Val Val Lys Thr Glu Lys Val Asp Arg Ser Thr Gln Asp Glu Leu Ser  
 705 710 715 720  
 Thr Lys Cys Val His Cys Gly Ile Val Phe Leu Asp Glu Val Met Tyr  
 725 730 735  
 Ala Leu His Met Ser Cys His Gly Asp Ser Gly Pro Phe Gln Cys Ser  
 740 745 750  
 Ile Cys Gln His Leu Cys Thr Asp Lys Tyr Asp Phe Thr Thr His Ile  
 755 760 765  
 Gln Arg Gly Leu His Arg Asn Asn Ala Gln Val Glu Lys Lys Trp Lys  
 770 775 780  
 Thr  
 785

<210> 10641  
 <211> 1688  
 <212> DNA  
 <213> Homo sapiens

<400> 10641  
 aaaaaaaaaat ggctcctccc agccttgtgc tgtcctcccc tggccaaggc ccggcttcac 60  
 catggagctg gtgccgtgct cacgggcctt cccagttccc acacctctct tctcatagct 120  
 agtgggtcca gtgccctgc aggcccaacc gtaacaactc agctcccaag ctgaccctta 180  
 cctgtotgta aaagccttcc cttccaatca gcatccggtg tttataacca catcctgagc 240  
 cagggtgtgt ttccccagaa atgctacccc cttagacatgc tctatccacc ttgatcacac 300  
 cctcaccggg ctctttgacc tctcaaaac ctccctgcag aactcctcct tgtcttctca 360  
 ctctggcagc caccctgtc ttcacttctt tctttacctg gctccactga gagacctgag 420

09629469.072800

```

ccctgggggaa tgcaggtggt gtgccccct ctgcccctccc actggcccag cccttggatg 480
catcattaga gatgggtgcc agctcacatg aggacccact accttggctc ggccctcttc 540
ctgcattcat ccttctaggg gccccagtga gcacacaggt tcttcaggaa aaatgcagct 600
ccttaccctt cctcttcagc acctgctttt catagagaac cctccttcta tcttgcatgc 660
atgacagggg tcccggtggg ccatgcaccc agcttccctc ctctctccct ggccatgttc 720
cagcctgggg gtggaagaac ctgcccattt cccatctctt ccagagtctc cttccccag 780
gaacccctt cctccctag tgcattggtt ctgctgtccc ttttgcctt tcccttcagt 840
ctacaagttg cccaaatccc tgaatttctt tcttcccttt ttttttttt tttttttaaa 900
acaacagaag gagccctccc cagaacactg agagggatgc attattattt ctttctatgg 960
atggggacac agtggcttag tggggaaata gctacccaag ctcaacaata tctgatgaaa 1020
gttggaggca ggttgggagc tcagccgcct gactccctgc acatgcctcc aactttgagt 1080
caaaggcggg gaaaagatgc agcccttctt ggggtgtcca tctttgggtc aggggttaagg 1140
aaggagcctt gggaccaaat gaagtgactg ccagtgaag tcactgtagg cttaagctg 1200
cttaactctc aactcctcgg tatttttaggt accatctgtc ttcccatctc aattatgaat 1260
tctccaggga ctgtcacttc attttttttt tttgtctctt aggatgcttt gtgcatagct 1320
gatgcttagt aatgggctct tattcatcta gaaatttttt ttgcctttta cttcaacctg 1380
gaaggctttt aaaaaacatg attagccagg cgcgggtggct cagcctgtaa ttccagtgtc 1440
ttgggaggct gaggtgagag gatcacatgt ggccaggagt ttaagaccag cccaagcaac 1500
atagctagac cccgcctctt caaaaataag gatgaaaaat ttagccaggc atggttggtac 1560
atgctttagt ctccaggtag tcaggagact aagggtgggag gagtgtttga gccaggtgt 1620
ttgtggttac agtgagctat atcgcgccac tgaactccag cctgggcaac aggatgagac 1680
cctgtctc 1688

```

<210> 10642  
 <211> 1690  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (914)..(1585)

```

<400> 10642
atacgactat gactatttct gcagtaatta ttattgagac ttactataat aatgataagg 60
ctgtatataa attatacctt actaaaaatt taaaatctag gaatttactg agagagcata 120
aagtatggtt gtaatagaga aaacaaatga ttgaaatggc ttaaagcaa gcccttaata 180
ttaattttga gtattttaac gcaaataaaa ccaattatga cagtgtgctc aaatttgtaa 240
acaaccaatc tgtgacttta tgaaaatata ttatgacag tcatacttgc cttactctta 300
agtgtagtat ttgtccttaa gttgggagca ccataaatta attttaaaagc aaaacatatg 360
accctcatcc aatgttttaa atgaattgct tcctactagg aaaacaaaac atctcaggac 420
atcaaaatact tctagtaatc aagatgtttt gtttaaatit gctaatgtaa gottcaactc 480
tatttggttg cactttaaaa aagcactacta gaaaatgggg aatatttgaa acatgcattt 540
ttaaaagcta ggtgttatct tactcagaag atgttaaaag cttctttata cattttattt 600
gaaagtaatt tccaaaaaag ggatgcttgg tgggtatatg aaaagggtgt cagtatcact 660
aatcatcagg gaaatacata tcaaaacat aatggaatat tacctcacag ctgttaggat 720
ggcttttatc aaaaagacaa aaaataacaa gtattagtga gactgtggaa gagaaggaac 780
cctcacacac cactgatagg aatgtatatc agtataggca ttattaaaaa cactatggag 840

```

```

attcttcaaa aatgtaaaac taagaatact atataatcaa acaatccac ttctgggtat 900
atatccaaag gaaatgagaa ccatgtataa aagagatatg tactctccca tatccattgc 960
agatttactc acaacagtga agatactgaa acaatataaa tgttcattga tggaaaagaa 1020
tacagctgga ggcacatgac tacctgactt caaactacac tacaaggcta cagtaaccaa 1080
aacagcatgg tactgggtacc aaaacagaca tatcgaccaa tggagcagaa cagagacctc 1140
agaaataaaa caacatgtct acaaccattt gatctttgac aaacctgaca aaaacaagaa 1200
atgggggaaag gatctcctat tcagtaaatt gtgctgggaa aactggctag ccatatgcag 1260
aaaactgaaa ctggaccctt tccttacacc ttatatgaaa attaaactcaa gatggattaa 1320
agacttaaat gtaaaactga aaaccataaa aatcctggaa gaaaacctag gcaataccat 1380
tcaggacata gggatgggca aagacttcat gatgaaaaca ccaaagcaa ttgcaacaaa 1440
agccaaaatt gacaagtggg atttaattaa attaaagagc ttcttcacag caaaagaaat 1500
aatcatcaga gtgaacaggc aacctacaga gtggaagaaa atttttgcaa tctacccatc 1560
tgacaaaggt ctaatatcca gaatttaaaa ggaacttaaa catatttaca agaaaaaaaa 1620
aaacaacctt atcaaaacat aggcaaagga tatgaatgga cacttctcta aagaagacat 1680
ttacatggcc                                     1690

```

<210> 10643

<211> 224

<212> PRT

<213> Homo sapiens

<400> 10643

```

Met Arg Thr Met Tyr Lys Arg Asp Met Tyr Ser Pro Ile Ser Ile Ala
 1           5           10           15
Asp Leu Leu Thr Thr Val Lys Ile Leu Lys Gln Tyr Lys Cys Ser Leu
          20           25           30
Met Glu Lys Asn Thr Ala Gly Gly Ile Met Leu Pro Asp Phe Lys Leu
          35           40           45
His Tyr Lys Ala Thr Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn
          50           55           60
Arg His Ile Asp Gln Trp Ser Arg Thr Glu Thr Ser Glu Ile Lys Gln
          65           70           75           80
His Val Tyr Asn His Leu Ile Phe Asp Lys Pro Asp Lys Asn Lys Lys
          85           90           95
Trp Gly Lys Asp Leu Leu Phe Ser Lys Trp Cys Trp Glu Asn Trp Leu
          100          105          110
Ala Ile Cys Arg Lys Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Met
          115          120          125
Lys Ile Asn Ser Arg Trp Ile Lys Asp Leu Asn Val Lys Leu Lys Thr
          130          135          140
Ile Lys Ile Leu Glu Glu Asn Leu Gly Asn Thr Ile Gln Asp Ile Gly
          145          150          155          160
Met Gly Lys Asp Phe Met Met Lys Thr Pro Lys Ala Ile Ala Thr Lys
          165          170          175
Ala Lys Ile Asp Lys Trp Asp Leu Ile Lys Leu Lys Ser Phe Phe Thr
          180          185          190
Ala Lys Glu Ile Ile Ile Arg Val Asn Arg Gln Pro Thr Glu Trp Lys

```

09629459.072800



-4130/13211-

195 200 205  
Lys Ile Phe Ala Ile Tyr Pro Ser Asp Lys Gly Leu Ile Ser Arg Ile  
210 215 220

<210> 10644  
<211> 1818  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (170).. (1135)

<400> 10644  
gaattgcaac ggcagctgcc gggcgtatgt gttggtgcta gaggcagctg cagggtctcg 60  
ctggggggcca atcgggacca attttgagga ggtacttggc cacgacttat tttcacctcc 120  
gacctttcct tccaggcggg gagactctgg actgagagtg gctttcaca tgggaaggat 180  
cagtaatttc aagacaccaa gcaaattatc agaaaaaaag aaatctgtat tatgttcaac 240  
tccaactata aatatcccg cctctccgtt tatgcagaag cttggctttg gtactggggt 300  
aaatgtgtac ctaatgaaaa gatctccaag aggtttgtct cattctcctt gggctgtaaa 360  
aaagattaat cctatatgta atgatcatta tcgaagtgtg tatcaaaaaga gactaatgga 420  
tgaagctaag attttgaaaa gccttcatca tccaaacatt gttggttata gtgcttttac 480  
tgaagccagt gatggcagtc tgtgtcttgc tatggaatat ggaggtgaaa agtctctaaa 540  
tgacttaata gaagaacgat ataaagccag ccaagatcct tttccagcag ccataatttt 600  
aaaagttgct ttgaatatgg caagagggtt aaagtatctg caccaagaaa agaaactgct 660  
tcatggagac atagagtctt caaatgttgt aattaaaggc gattttgaaa caattaaat 720  
ctgtgatgta ggagtctctc taccactgga tgaatatatg actgtgactg accctgaggc 780  
ttgttacatt ggcacagagc catggaaacc caaagaagct gtggaggaga atggtgttat 840  
tactgacaag gcagacatat ttgcctttgg cttactttg tgggaaatga tgactttatc 900  
gattccacac attaatcttt caaatgataa tgatgatgaa gataaaaactt ttgatgaaag 960  
tgattttgat gatgaagcat actatgcagc cttgggaact aggcaccta ttaatatgga 1020  
agaactggat gaatcatacc agaaagtaat tgaactcttc tctgtatgca ctaatgaaga 1080  
ccctaaagat cgtccttctg ctgcacacat tgttgaagct ctggaaacag atgtctagt 1140  
atcatctcag ctgaagtgtg gcttgcgtaa ataactgttt attccaaaat atttacaatg 1200  
ttactatcag tagttattag actctaaaaat tggcatattt caggaccata gtttcttgtt 1260  
aacatatgga taactatttc taatatgaaa tatgcttata ttggotataa gcacttgga 1320  
ttgtactggg ttttctgtaa agtttttagaa actagctaca taagtacttt gatactgctc 1380  
atgctgactt aaaacactag cagtaaaacg ctgtaaaactg taacattaaa ttgaatgacc 1440  
attactttta ttaatgatct ttcttaataa ttctatattt taatggatct actgacatta 1500  
gcactttgta cagtacaaaa taaagtctac atttgtttta aacactgaac cttttgctga 1560  
tgtgtttatc aaatgataac tggaagctga ggagaatatg cctcaaaaag agtagctcct 1620  
tggtactctc agactctggt tacagattgt cttgatctct tggatctcct cagatcttct 1680  
ttggtttttg ctttaattta ttaaattgtat tttccatact gagtttaaaa tttattatt 1740  
tgtaccttaa gcatttccca gctgtgtaaa aacaataaaa ctcaaatagg atgataaaga 1800  
ataaaggaca ctttgggt 1818

09620469.072800

<210> 10645  
 <211> 322  
 <212> PRT  
 <213> Homo sapiens

<400> 10645

Met	Glu	Gly	Ile	Ser	Asn	Phe	Lys	Thr	Pro	Ser	Lys	Leu	Ser	Glu	Lys
1				5					10					15	
Lys	Lys	Ser	Val	Leu	Cys	Ser	Thr	Pro	Thr	Ile	Asn	Ile	Pro	Ala	Ser
			20					25					30		
Pro	Phe	Met	Gln	Lys	Leu	Gly	Phe	Gly	Thr	Gly	Val	Asn	Val	Tyr	Leu
		35					40					45			
Met	Lys	Arg	Ser	Pro	Arg	Gly	Leu	Ser	His	Ser	Pro	Trp	Ala	Val	Lys
	50					55					60				
Lys	Ile	Asn	Pro	Ile	Cys	Asn	Asp	His	Tyr	Arg	Ser	Val	Tyr	Gln	Lys
65					70					75					80
Arg	Leu	Met	Asp	Glu	Ala	Lys	Ile	Leu	Lys	Ser	Leu	His	His	Pro	Asn
			85						90					95	
Ile	Val	Gly	Tyr	Arg	Ala	Phe	Thr	Glu	Ala	Ser	Asp	Gly	Ser	Leu	Cys
		100						105					110		
Leu	Ala	Met	Glu	Tyr	Gly	Gly	Glu	Lys	Ser	Leu	Asn	Asp	Leu	Ile	Glu
		115					120					125			
Glu	Arg	Tyr	Lys	Ala	Ser	Gln	Asp	Pro	Phe	Pro	Ala	Ala	Ile	Ile	Leu
	130					135					140				
Lys	Val	Ala	Leu	Asn	Met	Ala	Arg	Gly	Leu	Lys	Tyr	Leu	His	Gln	Glu
145					150					155					160
Lys	Lys	Leu	Leu	His	Gly	Asp	Ile	Glu	Ser	Ser	Asn	Val	Val	Ile	Lys
				165					170					175	
Gly	Asp	Phe	Glu	Thr	Ile	Lys	Ile	Cys	Asp	Val	Gly	Val	Ser	Leu	Pro
		180						185					190		
Leu	Asp	Glu	Asn	Met	Thr	Val	Thr	Asp	Pro	Glu	Ala	Cys	Tyr	Ile	Gly
	195						200					205			
Thr	Glu	Pro	Trp	Lys	Pro	Lys	Glu	Ala	Val	Glu	Glu	Asn	Gly	Val	Ile
	210					215						220			
Thr	Asp	Lys	Ala	Asp	Ile	Phe	Ala	Phe	Gly	Leu	Thr	Leu	Trp	Glu	Met
225					230					235					240
Met	Thr	Leu	Ser	Ile	Pro	His	Ile	Asn	Leu	Ser	Asn	Asp	Asn	Asp	Asp
				245					250					255	
Glu	Asp	Lys	Thr	Phe	Asp	Glu	Ser	Asp	Phe	Asp	Asp	Glu	Ala	Tyr	Tyr
			260					265					270		
Ala	Ala	Leu	Gly	Thr	Arg	Pro	Pro	Ile	Asn	Met	Glu	Glu	Leu	Asp	Glu
		275					280					285			
Ser	Tyr	Gln	Lys	Val	Ile	Glu	Leu	Phe	Ser	Val	Cys	Thr	Asn	Glu	Asp
	290					295					300				
Pro	Lys	Asp	Arg	Pro	Ser	Ala	Ala	His	Ile	Val	Glu	Ala	Leu	Glu	Thr
305					310					315					320
Asp	Val														

09629469.072800

<210> 10646  
<211> 2077  
<212> DNA  
<213> Homo sapiens

<400> 10646  
ataatatgtg caaaatcctt aacatogcat tgaaagattc ttiggatctg atcttaccat 60  
atatttctag cctaattaat ctctacatt taccctgccg gtctctgtt cctactcatt 120  
gattccctaa caatgtaagc agagtccctt tgtaaagtoa ttcacagaaa gttttcccta 180  
ttcttctcta tctgaaaaaa aatgtcctct atccttggag atctaaccga aagtccatga 240  
agcattttac tgatactttc attttctgtt gcagcacttg ctatttcttt tatgccatgg 300  
agtgggcaca ttttgtatgt gtgtcttgta ttattgtgac ttgatccttg gattggatct 360  
tattttactt ttgatgtatg tggtagtcag aggccatcca acagatagaa cccacacagt 420  
aatttgagga aagttttaca taaagaataa gtagatataa tacagtattt atgtaattga 480  
agattagcta gtaataacta aagaggagtc taaagaatat agtaataata attataagga 540  
gaaaccattg cctctgaagc tgagagggtac ccaaaaagaa cctcttcacg ccttgcaagg 600  
ctgatatcca aactttatgt gtgaggacat gcccggtggc cactggcttg tggacaaatt 660  
gctgaggtgc tggaacagca ggacttgttg gaaatgtttt cctctgggat tccaaataag 720  
tcaccatag ggaggatcct aaccagcagc actcctcttc aaagccatct aaggggtgcc 780  
atcttcgtag aggtgcctca ttggcaacac ttcactgcta tgctatctga gagggtaatt 840  
gaaaatgcta tccacaagga gactgcacat tgaaagttaa tgcaaagcaa ctttaagggg 900  
tgtggaagat gccatccaca ggaagtgtct ggcttcggaa ctcaactgaa agccatcaga 960  
cacagtgtct gggtgcttct agccaccatg ttctatagga gccaggtatt aaagaagctg 1020  
catgctgaga ggagcacact aggaccagaa agagaaacct ttctccctct agtgtcccc 1080  
caatgtcatg tactgacaga gctcaaaatg tgcaagttca caagggagaa atatttatca 1140  
aaccatctc cattattgta gagcaggcag tggggggtgg atttggatgt gataatcaat 1200  
gtattcataa ttggcacaat atacttgttt attgactctt tgaacaaatc agaatttctt 1260  
acaagataga aatacattct taactttcct ttgtgtccca ggatttttaa aaaatctcaa 1320  
ataaatatta ctatatttct ccatcatatt cttaataata tgatataaac ttigacattt 1380  
tatgtgcaca agatataatc taagcattaa agataactgt gttacataag tgcacattat 1440  
tgtgtctagt aagtgtatga gcatgtgttg gcatatatgg gtgtatataa agtcaatatt 1500  
tgatttatga ttgaccaatt tgaaaattaa taaaatgggc ttgctgaaag ctagaaggta 1560  
gctactttaa acatcagaaa gacaaatgac aagtcttggt atcagctagt taaaaacata 1620  
agtttctacc ttgaaagga ttatgccaca cattgatttt cctattaatt taaataaagg 1680  
taggtgtagg aaatttactt tagtttccat ctttgaatgt tataaaatat tgtactaaca 1740  
catgttgatt tctgaaatgt tataatctta ttatacttaa aggataacat tggggctggg 1800  
tgtagtggct catacctgta atctcaatac ttitggaggc tgaggcaggg ggattgcttg 1860  
agcaaaggag ttcaatacca gcctgggcaa catgatgata ctcatctct acaaaaataaa 1920  
taaataaata aaaactaact gggcattgtg gtgtgtacct gtagtcccag ctacttggga 1980  
ggctgaggtg gaaagatcac ctgagtccag gaggctgcag tgagccgtga ccgtatcact 2040  
gtactccagc caaggtgaca gtgcatgacc ctgtctc 2077

<210> 10647  
<211> 2338  
<212> DNA

09629469.072800

<213> Homo sapiens

<400> 10647

gttggcctac tgggtgaagga aaatctcaag ggaaacctta aggaatggct acctacagtc 60  
caccttttaa ctgagaccca cacgggttga tgaccttcat gagttggcca tggctctttt 120  
ccacgttcct ttcattccag gactccggct gaaggacctg ccattctctg ggagactgct 180  
atcctttagt cagaaggaaa gggcgatggt ggaatccata atggcttcta aagctgctgt 240  
tttgaagtgc atgtttcact tcctgctcgc gtttcattag tgaaaataag tcacatggcc 300  
aagcctgata gcagcggagt ggggggtgatt aattctotca caggaggagg tagaaatcag 360  
ttaggtgcaa gcaacaccct ctaactgcga gccattggag gcttttgagt gggtaatgac 420  
ataatctagt ttgcatttgc ggaagatccc atgcagaaac aaatgtcaca ctgcagctgc 480  
aaggacagtg aggagggaga tggccatggt gccttgggtc ccagagtgc ggcatgcgga 540  
ggcgtcaatg catctacctc cagcacacca ggcatgatgt caggtgcagc aggaggtacc 600  
tggccctttg ctacacagac cacatgggtct tgctggggac aagacctagg gaacagctca 660  
ttttggtaca gtgtggttgg ttcttgagga gggagaggga atagcccacg ggctaagcag 720  
cccactgcag gtacctaatg caaccaggaa ggtcaggga ggagatggcc agccacgcgg 780  
tgaggttga acattatgta gcagttagcc aggtgaagag gagatgctgg ggagacaggg 840  
agaggccact cctggctgag ggacctgtac ctgcaaagac tctcagggga ggaggacggc 900  
tttctgtcac tgtttctgtg tgtgaggga atcagagggt aggcccggct gtcccctgcc 960  
tttctgtgg gccctgactg cactgacctc ctctcccaa accctccagg agttctgagt 1020  
ctctacctgg atcttgattc cactggcatg aaatctgtga atctcacctc gagaatcctc 1080  
cctctgctgc agcaggatgg gaccaacagt tccctgcagt ggcaaggag ctgttcacac 1140  
actgagcgag cagtcacagc tgccctgagc tccacattct cctcctcggg ggactccct 1200  
ggaattacct ttgtcatttt actttctcaa cccctgtgtt tcccttgata tcttacttat 1260  
ctctggtctt tttgtccaga cagctcttaa gccttgggag gaacctttc ctctgatccc 1320  
tttttaggcc attatcaagt tcagggtggg agggtagagt cactgtcttt ccaggccttg 1380  
ctgcatccct tagagacctt cggagggggc actttgtgac cagtgggat gggggaagga 1440  
tggcttgggt tgtctgtcct caccactac cctctgcca ctctgcctg cccttcctct 1500  
gtgtggcata tacagtactg caccctgag caggacattc ccagtgaga gcccaggcc 1560  
cgacacttc aggctgtgtg gccttgatca agttagtttc ctttctgtga ttcagattcc 1620  
tctcaggctg cttgtgcaaa ctcaacataa gaaagtctgc gaagctotta acccagggcc 1680  
tgggccatgc tagggggatc agtaagcagt ttctgccacc tctgttactg ccgctttcac 1740  
ctttccttgt ggaaaagaga agcagccaga aaagctgggt tttagcccca gctctgcctc 1800  
ttaactagct aagtaaagt gggcagaatg cttgacttct ctgaatctca tttttttttt 1860  
tttttttttt ttgtcaaaca agatgaatga acaagatcgg tcttttttga tggggacttg 1920  
aatggtgtgt ggggggacag ttcttttgtt gggacgggtc acactaaatg ccagttatcc 1980  
ccaccattg ttacaacca aatgtcacc cccaccaagt attctccat gtccctatgg 2040  
gttgggtgtg gaactgtccc tgactgagga ccactgaact agcttaccct aaacttcaact 2100  
cctgctctgg tgtcctgtgt ggggtggaaaa gtgaggacct agtgagcag gtagacaaaag 2160  
atcagttcaa cagggccctc tgctcctttg atattgggac agcttcaact cctotgaatt 2220  
agaagcttct tgacctccat atattgagga aggaaggggt ttctaacaaa tgaagaaaca 2280  
ggctgggcac agtggctcat gcctgtaatt cccctttggg aagcccagtt ccattctct 2338

<210> 10648

<211> 2159

<212> DNA

<213> Homo sapiens

09629469.02300

<400> 10648

```

ttagattatg acataaatct tgtaaaaacc tgtcagttat tttcatctat gagagaagag 60
gagcccaaac tctcgccac ctgttcttaa ccagaaaacc cactgacttt gaaaatctca 120
cctctgccac ccattactt gcattcgtct ttggcagacc tcaagataaa tatgggttaa 180
tgccctgcatg atgcctctga attcaggaat tgcagggaaa actcggggct ttgtgccagt 240
ctctaagttg gcaacttttg ctgaacaaat gagtagtggc ttcagtgtcc ttgcgtacac 300
attctgtgga ttgatttaat ggagttgtca gcatgatcat catcttctag ccaggggcat 360
agttgccaag gccatttacc tctttctaag aagaaacaga attatgtgta tatatgagag 420
aaagaaacaa gaatgcgtga atgaggatga agaaacattt acccatgta ctcaagacat 480
ttcagtttta aaagtcactt tcctattaga cttcttgaaa aagattctca catagcctct 540
atgtaatcag acaaatgaca tttgatttca agagcagagg ggtaaacatc ctctgctaatt 600
cgacaggtag caggtgtcag aggaggcata atattaatag cgccacctc tgttgggtca 660
gtggagatgg gtgaggagca gcacagagca gcagggatca tcacatgcag ccaaacttgg 720
cctctgaagg gggaaggtag tgggaatagg tggtagagaga actcacattt ttctcttctc 780
ctggttttat atttcggagg gaaaggatta tttggcccca ttaagaatta agaggctggg 840
tgcggtggct cagctctgta atcccagcac cttgggaggc ccaggcaggc agatcacctg 900
aggtcgggag ttcgagacca gcgtgaccaa cgtggagaaa ccccgctctc tactaaaaat 960
acaaaaaatt agctgggcat ggtggtgcat gcctgtgatt ccagtttggc tccagctatg 1020
tgttttattg gcgggattac tttgaggacc agccccttct gtatcccca ggctttgacg 1080
gaagagtcgt ggtgtatccc agcaaccaga ctttaaagga ctacctcagc tggcgacaag 1140
cagattgtca catcaataat ctttataata cagttttctg ggcaattata caacaatctg 1200
gactaacacc agtacaagcc caaggagat tacagggaac tcttgacgca gacaagaatg 1260
agattttgtt ttctgaattc aacatcaact ataataatga gccgccgatg tataggaaag 1320
ggactgtgtt gatatggcag aaggtggatg aagtgatgac aaaagaaatt aagctgcca 1380
cagaaatgga aggaaaaaag atggcagtga cccggaccag gacaaagcca gtgcccttgc 1440
actgcgatat catcggggat gctttctgga aggaacatcc agagattcta gatgaagaca 1500
gctgaccctt ttgcgcttca gttctgggtg gcttaaccat gcaagccctc ccacctcca 1560
gggctccttg ccttaggtgg ctgtagcatc cctaccacc aggacactgg tgtgaatgac 1620
acaactcaag ttgggagggg aacaggggag gaagggatgg atgggggtgg tgtatcttat 1680
totgtttaag cagaacacct tgtttgcggt gttggaacat ggttcctttg gcagaagtgc 1740
ttttttttta atcgcagtac tttttttata aagcaagaac tattccatgc cttggagaat 1800
gaatcattta actgtgctat ggagtagaag caggagggtt tcaacctagt cacagagcag 1860
cacctacccc ctctcctttt ccacacctgc aaactctttt acttgggctg aatatttagt 1920
gtaattacat ctgagctttg agggctcctg tggcaaatc cgggattaaa agtttccctg 1980
gttgtgaaaa tacatgagat aaatcatgaa ggccactatc atctccttc tgcttgaca 2040
agtttcctgg gctggaccgt ttcaacagga gaatcatttg aactcaggag gcggaagtgt 2100
cggtgagcca agattgtgcc attgcactcc agcctgggca acgagcgaaa ctacatctc 2159

```

<210> 10649

<211> 1584

<212> DNA

<213> Homo sapiens

<400> 10649

```

tttaaaacaa aaatttcctg cgtgaaattc tggcttagtt aactttttgg tctttctctc 60
ggggcttttc ttgttcttat aaaatactgt aaattacaaa tggaaattta atgcagaatt 120

```

```

aaatttctag tgtacaatat ttgtaagaca agaagaaaat ttccctttcc cagatctcag 180
gaactacctt gttcctgtta acttcttgaa ctggctagtt gctcaaaggt atgtatacag 240
gccttttagg aagagcagtt tttaaaattt tcctttctga tcattatata cctgtcagat 300
gacaatagat aatcttccaa agttgctacc taaaaatcct aggaaagaaa ctttggtgaa 360
catgactgcc attcccatta attgctaatt aaaaacatca gacttgctta gtagaaaaac 420
acctaatttg gtataacttt cttgcagttt atccatatta tgtgcttggt acttaattga 480
attaaaagca ttttaaaatt ctactttttt cgtatccact ttttataact gctacttcct 540
aaatcctccc tcactgttta tttcatccat ctactcattt cccatcatcc aaagttagcc 600
tctccttgta taccaggcac tgtctgattt ccatgtatto cttttatttt tactgtgggc 660
ctttgtgctt agtatacttt tacttcatat aatgtgatta acaaatgaag tgattatcat 720
atggagttaa aggaaattag atgtatcttg caattacttt gaaatctttg ggaaacctta 780
agaagattgt atctgttttc atttttattt acaacatctt ggaatttggt catgatttcc 840
taaaatttct ttgcctaccc acatctctgt gaaaattttc catatcagtt aagtagtttt 900
cgcaatgaaa attttagacc atagatatgt tgtatgctgt gatcttttgc agcctaattgt 960
ttgaagggag catgatgcag agaggttttg ttaaaatcat tttagcccaa agcttttgtgt 1020
aattttcctg caactttgat tttgatttct ttctcaaata gactttttta atgttttagaa 1080
aagttggagg tcaatttatg atgtgattca agtttttagat ttatttgcta ttttcaaagt 1140
tttttttaat agtcttctct ttttccagca gagagagatc atcattgcct gaatttagct 1200
ttgtgactgc aagagcaaga ccagttcctg tctggagacg actgttacia taatatcatc 1260
ctattatttt atgttcactc tttatcaatt tgaacagatg tttacatgta ctataattag 1320
cattttatct ctacagttct ctaagagtac atctgagtc aaagtgtatc tgaatgtgtg 1380
ctctgacctt attcttaaat gttttctccc catactttat agccatttat tttttaaaca 1440
ccttaagaag gaacgaaaaa gttctcttgg atgacgtata ttcaagtctg agccaaattg 1500
aggatttgtt ctaggaatc tgtaaagcca tactactgtg ttcattagca tgagcaattt 1560
aaaatgaaaa tgaattaaaa agtt                                     1584

```

<210> 10650  
 <211> 1847  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (379)..(1845)

```

<400> 10650
gaaacatatg aagctctatt agccagattt cccaatcttc gatttgcata caaggatcca 60
gagaagaact ggaatagaaa ttgtgtgaaa ggacttgtgg cttctctgat tagtgtgaaa 120
gacacttctg caaccacagc tttagaatta gtggctggag aacgactcta caatgttgta 180
gtagacacag aagttactgg taaaaagcta ctagaaaggg gggaactgaa acgtcgatac 240
actataattc cactcaataa aatttcagcc agatgtattg caccagaaac totgagagtt 300
gctcagaatc ttgttggccc tgacaacggt catgtggctc tttccttgggt tgaatataaa 360
ccagaacttc agaaagcaat ggagtttgtc tttggaacaa catttgtttg tgacaatatg 420
gataatgcca aaaaagtggc ctttgataag aggataatga ctagaactgt aactctcgga 480
ggtgatgtgt ttgatcctca tgggacattg agtggagggt ctcgatccca ggcagcttcc 540
attttaacca agttcaaga actcaaagat gttcaggatg aactgagaat caaagagaat 600
gagctgcggg ctctagaaga ggaattagca ggtcttaaaa acactgctga aaagtatcgc 660

```

```

caactaaaac agcagtggga gatgaaaact gaagaggcag atttattaca aaccaagctc 720
cagcaaagct catatcacaa gcaacaagaa gaattagatg cccttaaaaa aaccattgag 780
gaaagtgagg agactttgaa aaacactaaa gaaatccaaa gaaaagcaga agaaaaatat 840
gaagtattgg aaaataaaat gaaaaatgca gaagctgaaa gagagcgaga actgaaagat 900
gctcagaaaa aactggattg tgccaaaaaca aaggcagatg catctagcaa gaagatgaaa 960
gaaaaacaac aggaagttga agctatcact ctggaactgg aagagctcaa gagagagcat 1020
acatcttaca aacaacagct tgaagctgta aatgaagcta tcaaataccta tgaaagtcag 1080
attgaagtaa tggcagctga ggtggctaaa aataaggagt cagtaaataa agctcaagaa 1140
gaggtgacca agcaaaaaga ggtgataaca gcccaagaca ctgtaattaa agctaaatat 1200
gcagaagtgg caaacacaaa ggagcaaaaac aatgattctc agcttaaaat taaggaatta 1260
gaccacaaca tcagcaaaaca taaacgggag gctgaagatg gtgctgcaaa ggtatccaaa 1320
atgttgaaaag attatgactg gattgatgca gagagacacc tctttggcca acccaatagt 1380
gcctatgatt tcaaaactaa caaccctaaa gaagctgggtc agagacttca gaagttgcaa 1440
gaaatgaagg agaaactagg aagaaatgtc aatatgagag ctatgaatgt attgacagaa 1500
gctgaagagc gatacaatga cttgatgaag aagaagagaa ttgtagaaaa tgacaaatcc 1560
aaaattctta caactataga agaccttgac cagaagaaaa accaagccct aaatattgca 1620
tggaacaaagg tgaacaagga ctttgggtct attttttcta ctcttttgcc tgggtgcta 1680
gctatgcttg caccaccaga gggctcaaac gttttggatg gtctggagtt caaggttgcc 1740
ttgggaaata cctggaaaga aaacctaact gaacttagtg gtggtcagag gtcttttagtg 1800
gccttgtcat taatactgtc catgcttctc ttcaaacctg ctccaat 1847

```

<210> 10651  
 <211> 489  
 <212> PRT  
 <213> Homo sapiens

<400> 10651

Met	Glu	Phe	Val	Phe	Gly	Thr	Thr	Phe	Val	Cys	Asp	Asn	Met	Asp	Asn
1				5				10					15		
Ala	Lys	Lys	Val	Ala	Phe	Asp	Lys	Arg	Ile	Met	Thr	Arg	Thr	Val	Thr
			20					25					30		
Leu	Gly	Gly	Asp	Val	Phe	Asp	Pro	His	Gly	Thr	Leu	Ser	Gly	Gly	Ala
			35					40					45		
Arg	Ser	Gln	Ala	Ala	Ser	Ile	Leu	Thr	Lys	Phe	Gln	Glu	Leu	Lys	Asp
			50				55				60				
Val	Gln	Asp	Glu	Leu	Arg	Ile	Lys	Glu	Asn	Glu	Leu	Arg	Ala	Leu	Glu
			65			70				75					80
Glu	Glu	Leu	Ala	Gly	Leu	Lys	Asn	Thr	Ala	Glu	Lys	Tyr	Arg	Gln	Leu
				85					90					95	
Lys	Gln	Gln	Trp	Glu	Met	Lys	Thr	Glu	Glu	Ala	Asp	Leu	Leu	Gln	Thr
			100					105					110		
Lys	Leu	Gln	Gln	Ser	Ser	Tyr	His	Lys	Gln	Gln	Glu	Glu	Leu	Asp	Ala
			115					120				125			
Leu	Lys	Lys	Thr	Ile	Glu	Glu	Ser	Glu	Glu	Thr	Leu	Lys	Asn	Thr	Lys
			130				135				140				
Glu	Ile	Gln	Arg	Lys	Ala	Glu	Glu	Lys	Tyr	Glu	Val	Leu	Glu	Asn	Lys
					150					155					160

09629469.072800

-4137/13211-

```

Met Lys Asn Ala Glu Ala Glu Arg Glu Arg Glu Leu Lys Asp Ala Gln
      165                      170                      175
Lys Lys Leu Asp Cys Ala Lys Thr Lys Ala Asp Ala Ser Ser Lys Lys
      180                      185                      190
Met Lys Glu Lys Gln Gln Glu Val Glu Ala Ile Thr Leu Glu Leu Glu
      195                      200                      205
Glu Leu Lys Arg Glu His Thr Ser Tyr Lys Gln Gln Leu Glu Ala Val
      210                      215                      220
Asn Glu Ala Ile Lys Ser Tyr Glu Ser Gln Ile Glu Val Met Ala Ala
225                      230                      235                      240
Glu Val Ala Lys Asn Lys Glu Ser Val Asn Lys Ala Gln Glu Glu Val
      245                      250                      255
Thr Lys Gln Lys Glu Val Ile Thr Ala Gln Asp Thr Val Ile Lys Ala
      260                      265                      270
Lys Tyr Ala Glu Val Ala Lys His Lys Glu Gln Asn Asn Asp Ser Gln
      275                      280                      285
Leu Lys Ile Lys Glu Leu Asp His Asn Ile Ser Lys His Lys Arg Glu
      290                      295                      300
Ala Glu Asp Gly Ala Ala Lys Val Ser Lys Met Leu Lys Asp Tyr Asp
305                      310                      315                      320
Trp Ile Asp Ala Glu Arg His Leu Phe Gly Gln Pro Asn Ser Ala Tyr
      325                      330                      335
Asp Phe Lys Thr Asn Asn Pro Lys Glu Ala Gly Gln Arg Leu Gln Lys
      340                      345                      350
Leu Gln Glu Met Lys Glu Lys Leu Gly Arg Asn Val Asn Met Arg Ala
      355                      360                      365
Met Asn Val Leu Thr Glu Ala Glu Glu Arg Tyr Asn Asp Leu Met Lys
      370                      375                      380
Lys Lys Arg Ile Val Glu Asn Asp Lys Ser Lys Ile Leu Thr Thr Ile
385                      390                      395                      400
Glu Asp Leu Asp Gln Lys Lys Asn Gln Ala Leu Asn Ile Ala Trp Gln
      405                      410                      415
Lys Val Asn Lys Asp Phe Gly Ser Ile Phe Ser Thr Leu Leu Pro Gly
      420                      425                      430
Ala Asn Ala Met Leu Ala Pro Pro Glu Gly Gln Thr Val Leu Asp Gly
      435                      440                      445
Leu Glu Phe Lys Val Ala Leu Gly Asn Thr Trp Lys Glu Asn Leu Thr
      450                      455                      460
Glu Leu Ser Gly Gly Gln Arg Ser Leu Val Ala Leu Ser Leu Ile Leu
465                      470                      475                      480
Ser Met Leu Leu Phe Lys Pro Ala Pro
      485

```

<210> 10652  
 <211> 2624  
 <212> DNA  
 <213> Homo sapiens

002270.69462960



<220>  
<221> CDS  
<222> (271).. (2199)

<400> 10652

tatttataat	atgtggagga	gagagagctc	accatgctca	ggtaaaggga	tgaagcctct	60
ggtatgtcag	aaccatgctg	tcttccatga	gacttccttt	gtgaagagca	tccattttaa	120
agacttttat	gaatacatgg	tttcaatcaa	gtccccagag	aacacatttg	tcttctgagc	180
tgctggcagt	tttgagaatc	tgatgacctc	cgagggggacc	ctgcactcag	ccatcaaagt	240
gttcctgccc	ctctggacac	tcataattca	atggtagatg	caggtaggag	tgagaacatc	300
accagcttc	cccaggagct	tcctcagatg	atggctgcag	cagccgatgg	tttggggagt	360
atagcgatag	acacgaccca	gctcaacatg	tccgtgacag	atcccacagc	ctgggctaca	420
gccatgaata	acctgggcat	ggttcccgta	gggttgccctg	gacagcagct	cgtgtctgac	480
tcaatctgtg	tcccaggctt	tgatccaagc	ctcaacatga	tgactggaat	cacccccatt	540
aacccaatga	taccaggcct	tggactggta	cctccccac	caccaacaga	agtggctgtt	600
gtcaaagaaa	taatccactg	caaaagctgt	actctttttc	ctcaaaatcc	aaatcttcca	660
cctccttcca	caagagaacg	acctcctggg	tgtaagaccg	tgtttgcgg	aggattacca	720
gaaaatgcta	ctgaggaaat	tattcaagaa	gtctttgaac	agtgcgggtg	tattacagca	780
attcggaaaa	gcaagaagaa	tttttgtcac	attcgctttg	cagaggaatt	catggttgat	840
aaagccattt	acctttctgg	ttataggatg	cgattagggg	ctagcaccga	caaaaaggat	900
tcaggccgcc	ttcatgtgga	ctttgcccag	gccagggatg	acttctatga	gtgggaatgc	960
aagcagagga	tgctgtcccc	ggaggagcgg	caccggcgca	agctggagga	ggaccggctc	1020
aggcccccac	ccccgcctgc	cataatgcac	tactcggagc	acgaagccgc	tctgctggct	1080
gaaaagctga	aagatgatag	caagtcttca	gaggctatca	cagtgtgtgt	ttcctggatt	1140
gaacgagggg	aagtgaatcg	gcgctctgca	aaccagttct	attccatggt	gcagtgggcc	1200
aacagccacg	tccgccggct	aatgaatgaa	aaagccaccc	atgagcaaga	gatggaggaa	1260
gccaaaggaga	attttaaaaa	tgccttaact	gggatttctc	ctcaatttga	gcagatttg	1320
gccgttttca	acgcttctac	cagacaaaaa	gcttggggacc	atttctcgaa	agcccagcgc	1380
aagaacatag	acatttggcg	aaagcattct	gaggagctcc	ggaatgtctc	aagtgtgacg	1440
ctcatgggca	tccgccgcga	agaagaaatg	gaaatgtctg	atgatgagaa	ctgtgacagc	1500
cctacaaaga	aaatgagagt	cgatgaatca	gccctggctg	cccaggccta	cgctctgaaa	1560
gaggagaatg	acagtctccg	ctggcagctg	gatgcctaca	ggaatgaggt	ggagctgctg	1620
aaacaagaaa	aagaacagct	tttccgaaca	gaagaaaacc	tcaccaagga	ccagcaactg	1680
cagtttctgc	agcaaaacct	gcaaggcatg	cagcagcaat	tgctaaccat	ccaggaggag	1740
ttaaacaaca	aaaagtcaga	attggaacaa	gcaaagggaag	agcagtccca	tacacaagcg	1800
ttactaaaag	tcctgcagga	acaattaaaa	ggtaccaagg	aattgggtcg	gaccaatggc	1860
cacagccatg	aggattcaaa	tgaaatcaat	gtgttgacag	ttgcattagt	caaccaagac	1920
cgagagaaca	atattgagaa	aagaagccaa	ggcttaaaat	cagagaaaga	agctctgcta	1980
ataggatatca	tatcaacgtt	tcttcacgtc	catccttttg	gagccaacat	agaatatctt	2040
tggtcataca	tgacgcagct	ggactccaag	atatctgcaa	atgaaataga	aatgcttttg	2100
atgaggctgc	cacgcagtgt	caaacaggaa	ttcacgggtg	tgggagccac	gctggaaaaa	2160
agatgggaagt	tggtgtgcctt	tgaaggaatt	aaaaccacct	aactgcgaag	agcaaagcat	2220
ctctggaaaat	gaaacctatg	gaacctggcc	agggcggtgc	gacgggggaag	caggaggtgt	2280
gggggttggtc	ccgcacgcaa	cctttgtgga	gccatcgaag	cctgccttta	gttatatctg	2340
tggcgttctc	ttgtaagtgg	aaatgtaatt	gtgtaccagt	ttcttaaaat	aaacaaagct	2400
tcatactgtg	acagatctgt	ttcctatgaa	aaccaaacaa	tgattccaca	gtcataatga	2460
tggcaaaaatc	ttaaaatgtg	ctacatttga	gaatagctca	ccaagcaaaa	tattttaaagt	2520

-4139/13211-

taatgatggt gtagcaatga ttgttgctag gctacagagt tgtatatgta atgtatagct 2580  
gaaatcatta aatgacattt tcctgaaagt ctttctgttt tagt 2624

<210> 10653

<211> 643

<212> PRT

<213> Homo sapiens

<400> 10653

Met	Val	Asp	Ala	Gly	Gly	Val	Glu	Asn	Ile	Thr	Gln	Leu	Pro	Gln	Glu	
1				5				10						15		
Leu	Pro	Gln	Met	Met	Ala	Ala	Ala	Ala	Asp	Gly	Leu	Gly	Ser	Ile	Ala	
			20					25					30			
Ile	Asp	Thr	Thr	Gln	Leu	Asn	Met	Ser	Val	Thr	Asp	Pro	Thr	Ala	Trp	
		35					40					45				
Ala	Thr	Ala	Met	Asn	Asn	Leu	Gly	Met	Val	Pro	Val	Gly	Leu	Pro	Gly	
	50					55					60					
Gln	Gln	Leu	Val	Ser	Asp	Ser	Ile	Cys	Val	Pro	Gly	Phe	Asp	Pro	Ser	
65					70					75					80	
Leu	Asn	Met	Met	Thr	Gly	Ile	Thr	Pro	Ile	Asn	Pro	Met	Ile	Pro	Gly	
				85					90					95		
Leu	Gly	Leu	Val	Pro	Pro	Pro	Pro	Pro	Thr	Glu	Val	Ala	Val	Val	Lys	
			100					105					110			
Glu	Ile	Ile	His	Cys	Lys	Ser	Cys	Thr	Leu	Phe	Pro	Gln	Asn	Pro	Asn	
	115						120					125				
Leu	Pro	Pro	Pro	Ser	Thr	Arg	Glu	Arg	Pro	Pro	Gly	Cys	Lys	Thr	Val	
	130					135					140					
Phe	Val	Gly	Gly	Leu	Pro	Glu	Asn	Ala	Thr	Glu	Glu	Ile	Ile	Gln	Glu	
145					150					155					160	
Val	Phe	Glu	Gln	Cys	Gly	Asp	Ile	Thr	Ala	Ile	Arg	Lys	Ser	Lys	Lys	
				165					170					175		
Asn	Phe	Cys	His	Ile	Arg	Phe	Ala	Glu	Glu	Phe	Met	Val	Asp	Lys	Ala	
			180					185					190			
Ile	Tyr	Leu	Ser	Gly	Tyr	Arg	Met	Arg	Leu	Gly	Ser	Ser	Thr	Asp	Lys	
	195						200					205				
Lys	Asp	Ser	Gly	Arg	Leu	His	Val	Asp	Phe	Ala	Gln	Ala	Arg	Asp	Asp	
	210					215					220					
Phe	Tyr	Glu	Trp	Glu	Cys	Lys	Gln	Arg	Met	Arg	Ala	Arg	Glu	Glu	Arg	
225					230					235					240	
His	Arg	Arg	Lys	Leu	Glu	Glu	Asp	Arg	Leu	Arg	Pro	Pro	Ser	Pro	Pro	
				245					250					255		
Ala	Ile	Met	His	Tyr	Ser	Glu	His	Glu	Ala	Ala	Leu	Leu	Ala	Glu	Lys	
			260					265					270			
Leu	Lys	Asp	Asp	Ser	Lys	Ser	Ser	Glu	Ala	Ile	Thr	Val	Leu	Leu	Ser	
	275						280					285				
Trp	Ile	Glu	Arg	Gly	Glu	Val	Asn	Arg	Arg	Ser	Ala	Asn	Gln	Phe	Tyr	
	290					295					300					

09629469.072800

-4140/13211-

Ser	Met	Val	Gln	Ser	Ala	Asn	Ser	His	Val	Arg	Arg	Leu	Met	Asn	Glu
305					310					315					320
Lys	Ala	Thr	His	Glu	Gln	Glu	Met	Glu	Glu	Ala	Lys	Glu	Asn	Phe	Lys
				325						330				335	
Asn	Ala	Leu	Thr	Gly	Ile	Leu	Thr	Gln	Phe	Glu	Gln	Ile	Val	Ala	Val
			340					345					350		
Phe	Asn	Ala	Ser	Thr	Arg	Gln	Lys	Ala	Trp	Asp	His	Phe	Ser	Lys	Ala
	355						360					365			
Gln	Arg	Lys	Asn	Ile	Asp	Ile	Trp	Arg	Lys	His	Ser	Glu	Glu	Leu	Arg
	370					375					380				
Asn	Ala	Gln	Ser	Glu	Gln	Leu	Met	Gly	Ile	Arg	Arg	Glu	Glu	Glu	Met
385					390					395					400
Glu	Met	Ser	Asp	Asp	Glu	Asn	Cys	Asp	Ser	Pro	Thr	Lys	Lys	Met	Arg
			405						410					415	
Val	Asp	Glu	Ser	Ala	Leu	Ala	Ala	Gln	Ala	Tyr	Ala	Leu	Lys	Glu	Glu
			420					425					430		
Asn	Asp	Ser	Leu	Arg	Trp	Gln	Leu	Asp	Ala	Tyr	Arg	Asn	Glu	Val	Glu
	435					440						445			
Leu	Leu	Lys	Gln	Glu	Lys	Glu	Gln	Leu	Phe	Arg	Thr	Glu	Glu	Asn	Leu
	450					455					460				
Thr	Lys	Asp	Gln	Gln	Leu	Gln	Phe	Leu	Gln	Gln	Thr	Met	Gln	Gly	Met
465					470					475					480
Gln	Gln	Gln	Leu	Leu	Thr	Ile	Gln	Glu	Glu	Leu	Asn	Asn	Lys	Lys	Ser
			485							490				495	
Glu	Leu	Glu	Gln	Ala	Lys	Glu	Glu	Gln	Ser	His	Thr	Gln	Ala	Leu	Leu
			500					505					510		
Lys	Val	Leu	Gln	Glu	Gln	Leu	Lys	Gly	Thr	Lys	Glu	Leu	Val	Glu	Thr
	515					520						525			
Asn	Gly	His	Ser	His	Glu	Asp	Ser	Asn	Glu	Ile	Asn	Val	Leu	Thr	Val
	530					535					540				
Ala	Leu	Val	Asn	Gln	Asp	Arg	Glu	Asn	Asn	Ile	Glu	Lys	Arg	Ser	Gln
545					550					555					560
Gly	Leu	Lys	Ser	Glu	Lys	Glu	Ala	Leu	Leu	Ile	Gly	Ile	Ile	Ser	Thr
			565					570						575	
Phe	Leu	His	Val	His	Pro	Phe	Gly	Ala	Asn	Ile	Glu	Tyr	Leu	Trp	Ser
			580					585					590		
Tyr	Met	Gln	Gln	Leu	Asp	Ser	Lys	Ile	Ser	Ala	Asn	Glu	Ile	Glu	Met
	595					600						605			
Leu	Leu	Met	Arg	Leu	Pro	Arg	Met	Phe	Lys	Gln	Glu	Phe	Thr	Gly	Val
	610					615					620				
Gly	Ala	Thr	Leu	Glu	Lys	Arg	Trp	Lys	Leu	Cys	Ala	Phe	Glu	Gly	Ile
625					630					635					640
Lys	Thr	Thr													

<210> 10654

<211> 1501

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 10654

```

tgttataatg caaagcctat caaacttaaa attagottaa tcctgaaaga tgtatattgc 60
ataatcaacc tgtcactttt ttcaaacacg atttgggagg gtattgagggt cccatgtaaa 120
ttttaaaata aaagacaaac aggaactaat ctttttagtaa aaattatttt gttttcatat 180
aggaaaacaa tgccttctgt catttacgga aaacacatgg gcaatatgggt tggttgttca 240
ttgtgcccct ctatcctata ggaagaatgt gatcttttaa ttgtgcttgg tgctttgttt 300
ctggagatat atatatatat attatatata tgtatatata ccatatgtat atatacatat 360
gtatgtgtgt atgtgtgtat atatatctct ctaggttgta tgtaattcaa tatgttgga 420
tttaaagatg cattattatt tggatttgat gtgaaattag attgtgaata atggagattg 480
ctctccattt tttgctgttc tagcatagcc aaaaatataa agatatagat gtacatatat 540
atatgtattt gattaaacac tttaaatttt aaatggccgc atcaaatttt aaatggtaga 600
tgatatcaac aattgcagtg cactcaaaat gttataaaat cttttagtag caaatcctga 660
agtatatgca aactaaatag catatttata taaaatacct agataacatg tctaggttga 720
gatatttaaa cctcataga gctatatttg actaataaaa aacgacagct aaaaaataat 780
tccctcccta taagtacaaa tatgattttt aaagcatcat tgtaacttgt catgaagcta 840
tttattatta attaaggatt taactctgta cccatctgct cttacaaaag gggaaaaaga 900
tttatctatg agaataggga agtatagcac tgttttatgt ttttctcttt agtattctgt 960
caccatttaa agcttcaata tatgccttcc actcaggttc ctgacacagc ctacattctc 1020
ttttctgggt ataatacaaa tatggtagag ctataaaciaa ggtaaaaagg tgtaacaat 1080
tgaactgcaa tcctacctat tatctacttt actatagcag tgaagtagtc cagacttatt 1140
tgaagggtgt actattttta tcttaciaaaa atctactata atattaataa ctttccatgt 1200
aaattttcat gtgctggcat gcttacaagt taatagtgtt atagaatgot cagctctcaa 1260
tatgaggggt tgtttgtgtt gaattgcata acatatgtca totatttgot gaaagaatat 1320
gotgttttagc aaactacctg ctgagcaaca taataagatt tttgtacaag gtacaaatta 1380
ctaattattg tattttattt ttctatgatt tcctaagagg cattatcagg gtcttacaga 1440
tggagtaagc ctgtttatta aaatatctat tggcaataaa aagttacagc tttggtggtt 1500
g
1501

```

<210> 10655

<211> 2547

<212> DNA

<213> Homo sapiens

<400> 10655

```

cttctgatg gctcctggat gtcaggaagc accacgccat ttccagcttc tcaggctcat 60
ggcttaaaaag gaccccagcc aactgttctt cccaagcaag cagacgggat ttatgggtggc 120
ggtttcttca aagtgttctt tctctaccca aatccagaag cgaaacaaaa cagaacactc 180
ctttaccttt tcgaagccag gaaaaggaac tcctcttatt ttttaaaagg cccaagagct 240
gcaagcaaat gtcaacttca tcctgtggtt tgatttacat gtttctttgg gagaaagaga 300
caaaatacag cattgaactt aaaaaaaaaa acttacaatg aactgttata actcagaaca 360
tgatgcacaa acccagattt acaaacgga gcaaaaaaaa aaaaagttct tctgagaggc 420
tctctgtgtg aggotgtgcc tgtctggcga atcatcttgg aaatggatga ggtaaacca 480
agggtcattg agtcccagca ctgggattgt ctgctccctg ctctgaaaaa atggaaaagc 540
tacgtccata agaggcatgg atgtctctag agctggccaa atatacaacg cttttttcga 600

```

```

gtgcgatttt ccctaattgt aatattgtgc atgatcatga atgaaaattt gggaaatgga 660
gaaaagtaga aagaaaacaa tcccctgttc agagagaacc tctggtaatc tgtcgtaagt 720
ttcttgtcag ctttttttcc gtatatitaa aaaccaaggt gctgtcatat tgtagattat 780
gctttgtatt ttttaaaaaa ttactatgg ccacgatttt tctttctacc tccttcctca 840
acccgaaggt acctggattg attgacaaca ccaccggtcc agcttcatga agccaggtaa 900
ccgggaagca tctgaccctg ctttctccct ctcccaaag cctgtgtcct cccaagccag 960
tgtctttgcc tcagtatctg tctaccagct tctctccatc ccagtggcca gcacccagct 1020
ctgagctgct gaaatctctc acccaggctg ggaaacagcc tccacctggt ctcttgcct 1080
ccacgctgga cctgtctacc cattttccat gctgccatca gaaggagcct tggagatgca 1140
aatctcatcc cagcaccctt gatgaacact tccatgactg tggccgttgc tcctaagata 1200
aagaccagat tcctcctcca ggaagcctcc ctgtctttac acacaaaatc ccctgcttca 1260
aagccacatg ccactgacta ccgtgtctat ttgtgagact cttgtttact ccttcctga 1320
ctctgggaac cactctgtct ccagtactca atcctgagca ttactttgag aacctcattt 1380
gttgatagaa tgaatgagaa agctctcatt gcacatccga aaacatgatg ttagggcggc 1440
attgtgactc ccagtatgca tctctgaaca cccacacaat tctggcatct gccatcctaa 1500
gtgctgagga cggtaaccat acccgcatth tgttatcgga gaaatagagc tggttcttag 1560
tctaaagaga gatactgggg aaacagctga gcagaaaagta ggactagaga cagcagctcc 1620
cgaaaatccc ttcaggcctt gcttctctgag ctgggagggg aactgcggtt gccaaaggca 1680
gccccggccc ccagtgttct tctgtctgct gactcccggc ctgcagtgac gccacacccc 1740
tcccactctt atgattgtcg aattgtctat tgtcaccact gactggtgag cgagccaccc 1800
ggggcagttt tgaaagacag ctggcgaggt aagttgagga cacagagcca gcccgagagc 1860
actggcagca tctaaactcc ctttcttga ctacgctttg gggctaggct cccaagtccc 1920
tggaggcagt gcagaaattc cacacgaagg ggtaactggg gtgtcaaacg ggagcgccctg 1980
ctgccactcc aagctgggac ccattctctg cgacacctcg ggtgtccct gctgtattcg 2040
gtgtcctttt gtttcaaaaa aataattttc ctcttagtac atggcaggtg gtggggtttg 2100
ttgctcttga attggcaaa caactagagg aaaaaccaac ccacgccgtc tgggaaggga 2160
ggaactgtcg aaggctgaga cttggattat cctccttag catctgggag gcaggcgggg 2220
agtgaagtgt ctcatccgtg aagtggatc cactctgatc cacatcagtc ccgttgtgat 2280
gaagtttgct gagcacagag ccggtgatct ggggactgca ttgaattgaa ttgaattgat 2340
tatcattttc ttgagacagg atcttgcctc gtcaccagct ctctattaaa aatacaaaaa 2400
attagccggc gtgtcgggtg gctcctgtaa ttcaacttgg gaggctgagg caggagaatc 2460
gcttgaaccc gggaggcgga gattgcagtg agttgagatc actgccatca cactccagac 2520
tgaactataa gagtaaaact ccattctc
2547

```

<210> 10656  
 <211> 1229  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (191).. (550)

<400> 10656

```

gtcgtggctc gttccattct cggcgggtgg acctgctccc ggtggccctg aggacgtgtg 60
ggccaggggc ggccccgaaa ttaggaagcg gagggggagc agtctgcagg tctgcggggc 120
taagtgtcgc ggcggcgcac ctgcgctcaa gaatccggag gaggagactg caaggatag 180

```

```

cccaggagta atggagtcca aagaggaact agcggcacaac aatctcaacg gggaaaatgc 240
ccaacaagaa aacgaaggag gggagcaggc cccacgcag aatgaagaag aatcccgcc 300
tttgggaggg ggtgaaggcc agaagcctgg aggaaatata aggcgggggc gagttaggcg 360
acttgtccct aattttcgat gggccatacc taataggcat attgagcaca atgaagcgag 420
agatgatgta gaaaggtttg tagggcagat gatggaaatc aagagaaaaga ctagggaaca 480
gcagatgagg cactatatgc gcttccaaac tcctgaacct gacaaccatt atgacttttg 540
cctcatacct tgaatcctaa aagttttcgc tgaggttaat gtgaacactg ctttacaagc 600
ttgtattttt gtgatttact ttttctgtaa gccttttggg gtttacaact accagtttct 660
aatggaaatt agaattctaa ttgaatattg ttttgtotca gcctaaaagt tacggtcagc 720
atggcaattc acctatttta ggaaaaatac tcttttcata atatgaaatg cataaagcag 780
ttcaaaaagc agtctgtatt ccatcatctt cctttttcat tccagtccct atttttgtaa 840
gtattacttt tcctcctccg gctacctgga ctcaaaatct cagttgtctt tgacagtttt 900
tttcttgccc ctgacaaaaa aagaatgata ataccagaaa ttcaatgttt gatattttta 960
gaatgtatgt tctagtgttt ttcagagtga gtctaccatc tgtataaaaa caccttgggg 1020
gcaggcaggg gcatttaaaa atgtaggacc tatcgtccag actcacagag tggggctcca 1080
gaatctccat ttttaacaaa ctctcttaag taattctgat gtgtaccaaa atcagtgcca 1140
ttgggtgtgtg tgtacgtaac tatatacata tgtgtgtgtg tgtatatata taatgtgtca 1200
taaccgtaaa caataaaca tatcaagat 1229

```

<210> 10657  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

```

<400> 10657
Met Glu Ser Lys Glu Glu Leu Ala Ala Asn Asn Leu Asn Gly Glu Asn
  1             5             10             15
Ala Gln Gln Glu Asn Glu Gly Gly Glu Gln Ala Pro Thr Gln Asn Glu
             20             25             30
Glu Glu Ser Arg His Leu Gly Gly Gly Glu Gly Gln Lys Pro Gly Gly
             35             40             45
Asn Ile Arg Arg Gly Arg Val Arg Arg Leu Val Pro Asn Phe Arg Trp
             50             55             60
Ala Ile Pro Asn Arg His Ile Glu His Asn Glu Ala Arg Asp Asp Val
             65             70             75             80
Glu Arg Phe Val Gly Gln Met Met Glu Ile Lys Arg Lys Thr Arg Glu
             85             90             95
Gln Gln Met Arg His Tyr Met Arg Phe Gln Thr Pro Glu Pro Asp Asn
             100             105             110
His Tyr Asp Phe Cys Leu Ile Pro
             115             120

```

<210> 10658  
 <211> 3401  
 <212> DNA  
 <213> Homo sapiens

09529469.072800

<400> 10658

aatctatgcc	agctctctgg	catctgggggt	tcctgactga	taccagcagt	tgaaggaaga	60
gagtgcattg	cacctgggtg	gtaacgacac	aatcagcaca	actggagaga	ggcattaaag	120
aaccagggaa	ggtagtttga	tttttcattg	aattctacaa	gctaattattg	ttccacgtat	180
gtagtcttag	accaatagct	gtaactatca	gctgcaatac	catgggtgacc	agctgtttaca	240
aaagattttt	tcctgtttta	tctgaaacat	actggattta	tatatgtata	agcgcctcaa	300
tggggaatta	gagccagatg	ttatgatttg	tttgctcttt	ttctttttata	gttatagcaa	360
aaatatggat	aattttctagt	gaatgcataa	attaggttgc	gtttctttatt	ttgctttaaa	420
tctctggtag	tttttccacc	cctgtgacac	aatcctaata	gacagtgtcc	tgtaaatgga	480
cacaacacaa	taaagtcaag	ttattattgc	tgttactctg	gatgatattg	aaaacactgc	540
cataatttaa	atcaactact	ccacgtgttt	ttccatccaa	tcacactgct	gtgattcagg	600
gatctttctt	ctaaaacgga	cacatttgaa	cctcaggttc	atcacaacc	tggtacctgt	660
tgcttcccag	aggatggaga	agtgtagtta	atcacacctc	ttagtttaat	ctgaaatctt	720
gacccagtta	tttaacaaat	aaataacctca	ttgattatat	ttaaaagtaa	tacacttcct	780
gtaaacaaat	ggggacaatg	catccaaaaa	atctttttta	acagattaca	caaaaattat	840
ttccagaaaag	gctaccattt	atcatcatta	tatttcaagc	ctcttatact	taataagcac	900
tttctaaaaa	gtcttgagat	cccaccattc	tgaggaattc	aatatgatca	ctttttcctt	960
ctttgcctgg	gagaggttaa	gaggcggttt	cgaagggtata	gatgctattg	ttctgatggc	1020
ccggctgaat	aaaatggaaa	ttctagtttg	ttagaattat	gcattctttt	tcaagattct	1080
cagtgtgcct	aacttatttg	agcacatcag	tttcttgggt	aatggaaaac	attacctaga	1140
gttgccagtg	gcacattaca	ccagtacaga	gcacattcca	aaggagacat	tggaaccagt	1200
aattcccata	caagtcaagg	taacagaaca	aaaggggaatc	ctgatgccct	tttaccattg	1260
ctggttgagc	tcaggcactg	tcattggacac	ccttaatttt	aaaagggttt	aatcattctt	1320
ctataaaaata	catttaaaat	ggaaaaatac	ttaatatcac	taaatatcag	aacaatgtaa	1380
catttacaaa	tgacatattg	aaagcaaagg	ctgtttttatt	tagccaagat	gattaccatt	1440
aggagttact	ttatgtattg	ttgaaagcaa	attttaaaca	tgatgtttta	gaagtgtttc	1500
tgatttttaa	acctggttta	cagggtattac	ttctgcactt	accaaataat	gccagatgga	1560
aattttattat	ttcttgcaat	tcccgtgata	gctctgttct	ttatgcattg	totcaacact	1620
ttcccttttt	tcccaaaatg	agtagagaat	taaagccacc	caaaacagct	tctgctacta	1680
aaatgttctc	atcctttctc	ctccctctcc	ttttcctgcc	acaaaagggtg	aaaaatgaga	1740
tccaatcctc	tcacccaaat	ttcaaacctc	ggacactgga	atgactgcag	ggatcagtgg	1800
ttctcccata	tcaccatcaa	ttaagacata	taggacactg	tcttccctca	agagggttac	1860
aatgtggcca	tcagacagga	aaccaaaacgg	tgataaaagt	attaagtaac	taagtgccaa	1920
ataaatgctg	gaaatcttga	cctctccttg	ggattatggg	tgtaacaaaa	atccctacat	1980
ctgtttatga	aggccatatt	cagtacattt	taaatggtaa	ataatctgtt	tatgtgaaga	2040
aaaagaatta	agtctttctt	ccaactctct	ccttggatag	cctagcacag	tgacgcctcc	2100
ataaccatga	cattcccgcc	caagctctca	gtgcctaata	ctgctttgtc	attcacatct	2160
cacaaaaatc	tgacatctta	cattccaata	cattatcaag	caagcacaa	tatgctggta	2220
gtagcctctt	ttaaataatat	gtatagacaa	caacaacgac	aaaaaataga	ctgtttttaa	2280
gtttcaggga	aagtgtgttg	ctgattttaa	gttgtgcagg	aaacatcttc	tgtgtatgaa	2340
gcaaatgtcg	atgttttgaa	aagctaggag	atgactttga	atgaatgcaa	ggttagtgag	2400
atcctaagct	ctcaaaaatg	catattccct	agagctcaag	aaagctggtc	caggagggtg	2460
aaaaagctat	tttgttgtaa	aattattttc	tgcccttctt	taatatttta	aaatgtattt	2520
ccccttgttg	ctttcaacca	cctgctcaaa	aaaagagact	tgttacatga	aagttttcat	2580
taaagagctg	aaaacaagaa	tttagagagc	cattcctaga	aatgtctcta	ctgccctgca	2640
tttgacaaac	aagcatcctt	tactaacaag	agcaggaatt	cagaggcaca	agaaaaagca	2700
ttggcatgag	ccaaagagtc	tgtcttaattg	ttacttttga	aatctgtctg	agcggccacc	2760

atatgcaggc	tgagagctgg	gcacaggcga	agccattgga	agcacttcag	gaacaagcac	2820
acagctgtgg	gacttgaaca	tgcaagtgtt	caggtttgtt	caagaagctt	ttcttttctt	2880
ctatgatgga	atctgttctt	ttctatocct	cttttttctc	tcttctctct	ctcaccacat	2940
tataccctgc	tcttacgcag	taaagctttt	aatggccctg	ttatgtctca	tgcctccaaa	3000
caacactgaa	tttgaacccc	cccatttttt	cttttcacca	ccctgttgag	caattttccc	3060
aaaaaaaggg	cagcaattat	taaattgaat	tcaagtttct	agattttact	aagttttatt	3120
ttgtcagggt	ttttaaattt	tttcagttag	cgtggtgact	gcagaggtta	gtgctgtgaa	3180
aagctgggct	aaatattctt	tctgtaaagt	caaacaggat	tccatccccc	gtgaaataac	3240
acaaaatttc	actctctaaa	agcaacagca	tgtaaactag	aatgaaagaa	ggaaattatg	3300
tacgtatgcc	taatattctt	tgtgaatgtc	tttcatTTaa	ctaaaattat	attagaaacc	3360
agattgataa	ataaaaaatt	caaagtagtt	ttaattatcc	t		3401

<210> 10659  
 <211> 1793  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (251).. (1192)

<400> 10659						
aaaaccgcgg	ttgccggagc	ccgaactgag	gcggcggcgg	gagcccggtt	ggcgtctggt	60
cttcgcgtcg	gccccgcgga	gccagacgct	gcccccggcg	cgggggagaag	atggtgccta	120
gcggcctcgg	gccccgccacg	cgccgccacg	agttagccca	gcgcgaccgc	gggcgtccgc	180
cgagcagctg	gccccggctgg	gccccggggcg	cgcagctgcc	cgccggggcg	gggtggagct	240
gatcagaata	atgttcagca	tcaaccccct	ggagaacctg	aagggtgtaca	tcagcagctg	300
gcctccccctg	gtgggtcttca	tgatcagcgt	aagcgccatg	gccatagctt	tcctgaccct	360
gggctacttc	ttcaaaatca	aggagattaa	atccccagaa	atggcagagg	attggaatac	420
ttttctgcta	cgggtcaatg	atttggaact	gtgtgtatca	gagaatgaaa	ccctcaagca	480
tctcacaac	gacaccacaa	ctccggaaag	tacaatgacc	agcgggcagg	cccagacttc	540
caccagctcc	ccccaggccc	tggaggactc	gggcccggtg	aatatctcag	tctcaatcac	600
cctaaccctg	gaccactga	aacccttcgg	agggtattcc	cgcaacgtca	cccatctgta	660
ctcaaccatc	ttagggcatc	agattggact	ttcaggcagg	gaagcccacg	aggagataaa	720
catcaccttc	accctgccta	cagcgtggag	ctcagatgac	tgcgcccctc	acggtcactg	780
tgagcagggtg	gtattcacag	cctgcatgac	cctcacggcc	agccctgggg	tggtccccgt	840
cactgtacag	ccaccgcact	gtgttcctga	cacgtacagc	aacgccacgc	tctggtacaa	900
gatcttcaca	actgccagag	atgccaacac	aaaatacgcc	caagattaca	atcctttctg	960
gtgttataag	ggggccattg	gaaaagtcta	tcatgcttta	aatcccaagc	ttacagtgat	1020
tggtccagat	gatgaccgtt	cattaataaa	tttgcattct	atgcacacca	gttacttcct	1080
ctttgtgatg	gtgataacaa	tgttttgcta	tgctgttatc	aagggcagac	ctagcaaatt	1140
gcgtcagagc	aatcctgaat	tttgtcccga	gaagggtggc	ttggctgaag	cctaattcca	1200
cagctccttg	ttttttgaga	gagactgaga	gaaccataat	ccttgccctgc	tgaaccacgc	1260
ctggggcctgg	atgctctgtg	aatacattat	cttgcgatgt	tgggttattc	cagccaaaga	1320
catttcaagt	gcctgtaact	gatttgtaca	tatttataaa	aatctattca	gaaattggct	1380
caataatgca	cgtgctttgc	cctgggtaca	gccagagccc	ttcaacccca	ccttggactt	1440
gaggacctac	ctgatgggac	gtttccacgt	gtctctagag	aaggattcct	ggatctagct	1500

09629469.072300



ggtcacgacg atgttttcac caaggtcaca ggagcattgc gtcgctgatg gggttgaagt 1560  
 ttggttttgt tcttgtttca gccaatatg tagagaacat ttgaaacagt ctgcaccttt 1620  
 gatacggat tgcattttcca aagccaccaa tccattttgt ggattttatg tgtctgtggc 1680  
 ttaataatca tagtaacaac aataatacct tttcctccat tttgcttgca ggaaacatac 1740  
 ctttaagtttt ttttgttttg tttttgtttt tttgtttttt gttttccttt atg 1793

<210> 10660

<211> 314

<212> PRT

<213> Homo sapiens

<400> 10660

Met	Phe	Ser	Ile	Asn	Pro	Leu	Glu	Asn	Leu	Lys	Val	Tyr	Ile	Ser	Ser	1	5	10	15
Arg	Pro	Pro	Leu	Val	Val	Phe	Met	Ile	Ser	Val	Ser	Ala	Met	Ala	Ile	20	25	30	
Ala	Phe	Leu	Thr	Leu	Gly	Tyr	Phe	Phe	Lys	Ile	Lys	Glu	Ile	Lys	Ser	35	40	45	
Pro	Glu	Met	Ala	Glu	Asp	Trp	Asn	Thr	Phe	Leu	Leu	Arg	Phe	Asn	Asp	50	55	60	
Leu	Asp	Leu	Cys	Val	Ser	Glu	Asn	Glu	Thr	Leu	Lys	His	Leu	Thr	Asn	65	70	75	80
Asp	Thr	Thr	Thr	Pro	Glu	Ser	Thr	Met	Thr	Ser	Gly	Gln	Ala	Arg	Ala	85	90	95	
Ser	Thr	Gln	Ser	Pro	Gln	Ala	Leu	Glu	Asp	Ser	Gly	Pro	Val	Asn	Ile	100	105	110	
Ser	Val	Ser	Ile	Thr	Leu	Thr	Leu	Asp	Pro	Leu	Lys	Pro	Phe	Gly	Gly	115	120	125	
Tyr	Ser	Arg	Asn	Val	Thr	His	Leu	Tyr	Ser	Thr	Ile	Leu	Gly	His	Gln	130	135	140	
Ile	Gly	Leu	Ser	Gly	Arg	Glu	Ala	His	Glu	Glu	Ile	Asn	Ile	Thr	Phe	145	150	155	160
Thr	Leu	Pro	Thr	Ala	Trp	Ser	Ser	Asp	Asp	Cys	Ala	Leu	His	Gly	His	165	170	175	
Cys	Glu	Gln	Val	Val	Phe	Thr	Ala	Cys	Met	Thr	Leu	Thr	Ala	Ser	Pro	180	185	190	
Gly	Val	Phe	Pro	Val	Thr	Val	Gln	Pro	Pro	His	Cys	Val	Pro	Asp	Thr	195	200	205	
Tyr	Ser	Asn	Ala	Thr	Leu	Trp	Tyr	Lys	Ile	Phe	Thr	Thr	Ala	Arg	Asp	210	215	220	
Ala	Asn	Thr	Lys	Tyr	Ala	Gln	Asp	Tyr	Asn	Pro	Phe	Trp	Cys	Tyr	Lys	225	230	235	240
Gly	Ala	Ile	Gly	Lys	Val	Tyr	His	Ala	Leu	Asn	Pro	Lys	Leu	Thr	Val	245	250	255	
Ile	Val	Pro	Asp	Asp	Arg	Ser	Leu	Ile	Asn	Leu	His	Leu	Met	His		260	265	270	
Thr	Ser	Tyr	Phe	Leu	Phe	Val	Met	Val	Ile	Thr	Met	Phe	Cys	Tyr	Ala				

09629469.072800

-4147/13211-

275 280 285  
Val Ile Lys Gly Arg Pro Ser Lys Leu Arg Gln Ser Asn Pro Glu Phe  
290 295 300  
Cys Pro Glu Lys Val Ala Leu Ala Glu Ala  
305 310

<210> 10661  
<211> 1451  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (369).. (884)

<400> 10661  
tcccttctcg tcgtcgccat tttagagctgg tgactgtggc cggctgggag taggcggcag 60  
tgagtttccc tgggagggca gcgcgcttgg cgcttctccc ctccccccga tctgcctcca 120  
gtctcggact tggttgttgc gcgctccggc tccggctgag ctgggagagt tggaggaggt 180  
ggcggcgggc agaggtgatg tctgggagcc cttccttgac agcccgggcc gagaagagtc 240  
cctgcgggaa gcatcaccca ggctggcaga tcatggtagc agcagcgggg gtggctggga 300  
agtgaacagg agccagcggc tgaggagggg cccagcagc ccccggaagg cctatcagga 360  
catggagtat gaaagacgtg gtggttgttg tgacaggact ggccgctatg gagccactga 420  
ccgctcgcag gatgatggtg gggagaaccg cagccgagac caagactacc gggacatgga 480  
ctaccgttca tatcctcgcg agtatggcag ccaggagggc aagcatgact atgacgactc 540  
atctgaggag cagagtgcgg aggattccta cgaggcctcc ccgggctccg agactcagcg 600  
taggcggcgg cggcggcaca ggcttcccc gagacggcga ctatcgggac caggactatc 660  
ggaccgagca aggggaggag gaggaggagg aggaggatga ggaggaggag gagaaggcca 720  
gtaacatcgt catgctgagg atgctgccac aggcagccac tgaggatgac atccgtggcc 780  
agctgcagtc gcacggcgtg caagcacggg aggttcggct gatgcggaac aaatcttcag 840  
cactccctca acatcctggg ccagaagggtg tcgatgcact acagtgacct caagcccaag 900  
atcaatgagg actggctgtg caataagtgt ggctccaga gcccaaggag aggaagtacg 960  
goggcataat cacagcctct gtagacttcg agcagcctac tcgggacggg ctgggcagtg 1020  
acaacatttg cagtcggatg ctgcaggcca tgggctggaa agagggcagc ggcctggggc 1080  
gcaagaagca gggcattgta acgcctatcg aggccaaac acgggtgcgg ggctccggcc 1140  
tggtgtcacg gggcagctcc tacggggtca cctcaaccga gtacctacaag gagacactgc 1200  
acaagacaat ggtgaccgcg ttcaacgagg ccagtgagc agcttcaaga gcaacttctc 1260  
cacatgttgg gtgtccatcc tggggcaggg caggacagag tgttgatgg ctgggacggg 1320  
gccttgctct tgtcggccag cccactcccc agccagagag ggcttgacca aatcaaatg 1380  
aggtggtgac ttttgttggg aaattgggct gggatcacgt cctgttttgt aataaaagct 1440  
gaaaagtctg c 1451

<210> 10662  
<211> 172  
<212> PRT  
<213> Homo sapiens

09629469.072800

<400> 10662

```

Met Lys Asp Val Val Val Val Val Thr Gly Leu Ala Ala Met Glu Pro
 1           5           10           15
Leu Thr Ala Arg Arg Met Met Val Gly Arg Thr Ala Ala Glu Thr Thr
          20           25           30
Thr Thr Gly Thr Trp Thr Thr Val His Ile Leu Ala Ser Met Ala Ala
          35           40           45
Arg Arg Ala Ser Met Thr Met Thr Thr His Leu Arg Ser Arg Val Arg
          50           55           60
Arg Ile Pro Thr Arg Pro Pro Arg Ala Pro Arg Leu Ser Val Gly Gly
          65           70           75           80
Gly Gly Gly Thr Gly Phe Pro Arg Asp Gly Asp Tyr Arg Asp Gln Asp
          85           90           95
Tyr Arg Thr Glu Gln Gly Glu Glu Glu Glu Glu Glu Asp Glu Glu
          100          105          110
Glu Glu Glu Lys Ala Ser Asn Ile Val Met Leu Arg Met Leu Pro Gln
          115          120          125
Ala Ala Thr Glu Asp Asp Ile Arg Gly Gln Leu Gln Ser His Gly Val
          130          135          140
Gln Ala Arg Glu Val Arg Leu Met Arg Asn Lys Ser Ser Ala Leu Pro
          145          150          155          160
Gln His Pro Gly Pro Glu Gly Val Asp Ala Leu Gln
          165          170

```

<210> 10663

<211> 1643

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (27)..(1643)

<400> 10663

```

gcaaaaagcg aggcgacggc ttaaagatgg agaacgaccc ccaggaggcg gagtctgaaa 60
tgGCCctgga tgctgagttc ctggacgtgt acaagaactg caacgggggtg gtcattgatgt 120
tcgacattac caagcagtgg accttcaatt acattctccg ggagcttcca aaagtgcccc 180
cccacgtgcc agtgtgcgtg ctgggaaact accgggacat gggcgagcac cgagtcattcc 240
tgccggacga cgtgcgtgac ttcattcgaca acctggacag acctccaggt tcctcctact 300
tccgctatgc tgagtcttcc atgaagaaca gcttcggcct aaagtaacct cataagttct 360
tcaatatccc atttttgtag cttcagaggg agacgctgtt gcggcagctg gagacgaacc 420
agctggacat ggacgccacg ctggaggagc tgtcgggtgca gcaggagacg gaggaccaga 480
actacggcat ctctctggag atgatggagg ctgcagcccg tggccatgcg tccccactgg 540
cggccaacgg gcagagccca tccccgggct ccagtcacc agtgggtgct gcaggcgtg 600
tgtccacggg gagctgcagc cccggcacac ccagcccgcc ccacagctg cccctcaatg 660
ccgccccacc atcctctgtg cccctgttac caccctcaga ggccctgccc ccacctgcgt 720

```

09629469 072800

```

ccccctcagc ccccgcccca cggcgcagca tcctctctag gctgtttggg acgtcacctg 780
ccaccgaggc agccccctcca cctccagagc cagtcccggc cgcacagggc ccagcaacgg 840
tccagagtgt ggaggacttt gttcctgacg accgcctgga ccgcagcttc ctggaagaca 900
caacccccgc cagggacgag aagaaggtgg gggccaaggc tgcccagcag gacagcgaca 960
gtgatgggga ggccctgggc ggcaaccoga tggcggcagg gttccaggac gatgtggacc 1020
tcgaagacca gccacgtggg agtccccgcg tcgctgcagg ccccgctccc agtcaagaca 1080
tcaactctttc gagtgaggag gaagcagaag tggcagctcc cacaaaaggc cctgccccag 1140
ctccccagca gtgctcagag ccagagacca agtgggtcctc cataccagct tcgaagccac 1200
ggagggggac agctcccacg aggaccgcag cccccccctg gccaggcggg gtctctgttc 1260
gcacagggtcc ggagaagcgc agcagcacca ggccccctgc tgagatggag ccgggggaagg 1320
gtgagcaggc ctctctgtcg gagagtgacc ccgagggacc cattgctgca caaatgctgt 1380
ccttcgtcat ggatgacccc gactttgagg gcgagggatc agacacacag cgcagggcgg 1440
atgactttcc cgtgcgagat gaccctccg atgtgactga cgaggatgag ggccctgccg 1500
agccgcccc accccccaag ctccctctcc ccgccttcag actgaagaat gactcggacc 1560
tcttcgggct ggggctggag gaggccggac ccaaggagag cagtgaggaa ggtaaggagg 1620
gcaaaacccc ctctaaggag aag 1643

```

<210> 10664  
 <211> 539  
 <212> PRT  
 <213> Homo sapiens

<400> 10664

Met	Glu	Asn	Asp	Pro	Gln	Glu	Ala	Glu	Ser	Glu	Met	Ala	Leu	Asp	Ala
1				5				10					15		
Glu	Phe	Leu	Asp	Val	Tyr	Lys	Asn	Cys	Asn	Gly	Val	Val	Met	Met	Phe
			20					25					30		
Asp	Ile	Thr	Lys	Gln	Trp	Thr	Phe	Asn	Tyr	Ile	Leu	Arg	Glu	Leu	Pro
			35				40					45			
Lys	Val	Pro	Thr	His	Val	Pro	Val	Cys	Val	Leu	Gly	Asn	Tyr	Arg	Asp
			50			55					60				
Met	Gly	Glu	His	Arg	Val	Ile	Leu	Pro	Asp	Asp	Val	Arg	Asp	Phe	Ile
					70					75				80	
Asp	Asn	Leu	Asp	Arg	Pro	Pro	Gly	Ser	Ser	Tyr	Phe	Arg	Tyr	Ala	Glu
				85					90					95	
Ser	Ser	Met	Lys	Asn	Ser	Phe	Gly	Leu	Lys	Tyr	Leu	His	Lys	Phe	Phe
			100					105					110		
Asn	Ile	Pro	Phe	Leu	Gln	Leu	Gln	Arg	Glu	Thr	Leu	Leu	Arg	Gln	Leu
			115				120					125			
Glu	Thr	Asn	Gln	Leu	Asp	Met	Asp	Ala	Thr	Leu	Glu	Glu	Leu	Ser	Val
			130			135					140				
Gln	Gln	Glu	Thr	Glu	Asp	Gln	Asn	Tyr	Gly	Ile	Phe	Leu	Glu	Met	Met
					150					155				160	
Glu	Ala	Arg	Ser	Arg	Gly	His	Ala	Ser	Pro	Leu	Ala	Ala	Asn	Gly	Gln
				165					170					175	
Ser	Pro	Ser	Pro	Gly	Ser	Gln	Ser	Pro	Val	Val	Pro	Ala	Gly	Ala	Val
			180				185						190		

09629469.072800

-4150/13211-

Ser	Thr	Gly	Ser	Cys	Ser	Pro	Gly	Thr	Pro	Gln	Pro	Ala	Pro	Gln	Leu
		195					200					205			
Pro	Leu	Asn	Ala	Ala	Pro	Pro	Ser	Ser	Val	Pro	Pro	Val	Pro	Pro	Ser
	210					215					220				
Glu	Ala	Leu	Pro	Pro	Pro	Ala	Cys	Pro	Ser	Ala	Pro	Ala	Pro	Arg	Arg
225					230					235					240
Ser	Ile	Ile	Ser	Arg	Leu	Phe	Gly	Thr	Ser	Pro	Ala	Thr	Glu	Ala	Ala
				245					250					255	
Pro	Pro	Pro	Pro	Glu	Pro	Val	Pro	Ala	Ala	Gln	Gly	Pro	Ala	Thr	Val
			260					265					270		
Gln	Ser	Val	Glu	Asp	Phe	Val	Pro	Asp	Asp	Arg	Leu	Asp	Arg	Ser	Phe
		275					280					285			
Leu	Glu	Asp	Thr	Thr	Pro	Ala	Arg	Asp	Glu	Lys	Lys	Val	Gly	Ala	Lys
	290					295					300				
Ala	Ala	Gln	Gln	Asp	Ser	Asp	Ser	Asp	Gly	Glu	Ala	Leu	Gly	Gly	Asn
305					310					315					320
Pro	Met	Val	Ala	Gly	Phe	Gln	Asp	Asp	Val	Asp	Leu	Glu	Asp	Gln	Pro
				325					330					335	
Arg	Gly	Ser	Pro	Pro	Leu	Pro	Ala	Gly	Pro	Val	Pro	Ser	Gln	Asp	Ile
			340					345					350		
Thr	Leu	Ser	Ser	Glu	Glu	Glu	Ala	Glu	Val	Ala	Ala	Pro	Thr	Lys	Gly
		355					360					365			
Pro	Ala	Pro	Ala	Pro	Gln	Gln	Cys	Ser	Glu	Pro	Glu	Thr	Lys	Trp	Ser
	370					375					380				
Ser	Ile	Pro	Ala	Ser	Lys	Pro	Arg	Arg	Gly	Thr	Ala	Pro	Thr	Arg	Thr
385					390					395					400
Ala	Ala	Pro	Pro	Trp	Pro	Gly	Gly	Val	Ser	Val	Arg	Thr	Gly	Pro	Glu
				405					410					415	
Lys	Arg	Ser	Ser	Thr	Arg	Pro	Pro	Ala	Glu	Met	Glu	Pro	Gly	Lys	Gly
			420					425					430		
Glu	Gln	Ala	Ser	Ser	Ser	Glu	Ser	Asp	Pro	Glu	Gly	Pro	Ile	Ala	Ala
		435					440					445			
Gln	Met	Leu	Ser	Phe	Val	Met	Asp	Asp	Pro	Asp	Phe	Glu	Gly	Glu	Gly
	450					455					460				
Ser	Asp	Thr	Gln	Arg	Arg	Ala	Asp	Asp	Phe	Pro	Val	Arg	Asp	Asp	Pro
465					470					475					480
Ser	Asp	Val	Thr	Asp	Glu	Asp	Glu	Gly	Pro	Ala	Glu	Pro	Pro	Pro	Pro
				485					490					495	
Pro	Lys	Leu	Pro	Leu	Pro	Ala	Phe	Arg	Leu	Lys	Asn	Asp	Ser	Asp	Leu
			500					505					510		
Phe	Gly	Leu	Gly	Leu	Glu	Glu	Ala	Gly	Pro	Lys	Glu	Ser	Ser	Glu	Glu
		515					520					525			
Gly	Lys	Glu	Gly	Lys	Thr	Pro	Ser	Lys	Glu	Lys					
	530					535									

<210> 10665

<211> 1510

0002270169452960



Ser Pro Thr Thr Arg Gly Ser Thr Ile Lys Asp Glu Ile Trp Val Gly  
50 55 60  
Thr Gln Ser Gln Thr Ile Ser Val Cys Ile His His Ile Leu Ile Phe  
65 70 75 80  
Ser Pro Arg Asn Arg Leu Leu Gly Phe Leu Thr Leu Tyr Val Gln Gln  
85 90 95  
Ser Tyr Ile Asn Val Leu Leu Cys Ile Pro Leu Lys Pro Ile Phe Phe  
100 105 110  
Leu Leu Tyr Leu Phe Pro His Phe Thr Ser Phe Phe Glu Gly Val Met  
115 120 125  
Trp Asp Arg Arg Lys Met Asp Phe Phe Ile Tyr Asn Ile Pro Glu Val  
130 135 140  
Gly Ser Ile Leu Ile Leu Lys Gln Ile Lys Met Ser Trp Val Trp Trp  
145 150 155 160  
Leu Thr Pro Val Thr Pro Ala Leu  
165

<210> 10667  
<211> 1595  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (321).. (1124)

<400> 10667  
acagtgaatc agtgaccccc aacccacggt cccctctaga agactattcc ctccatatca 60  
ttgaccttca caccggccgc ttatgtgata cagcacggt caagtgtgac aaggtggtct 120  
tgtcacacaa ccaagggctg tacttgtaca aaaacatcct ggccatcttg tctgtgcaac 180  
aacagaccat ccatgtcttc caggtgactc ctgaaggcac ttccattgat gtgcggacca 240  
ttggccgctt ttgctatgag gatgacctgc tcaactgtgc agctgttttc cctgaggtac 300  
agcgggacag tcagacaggc atggccaatc cctttaggga tcctttcatc aattccctca 360  
aacaccggtt gctggtatat ttgtggcgcc gggcagaaca ggatggtagt gcaatggcca 420  
agaggcgctt cttccagtat ttgaccaac tgcggcagct gogaatgtgg aaaatgcagc 480  
ttctggatga aaaccacctg tttatcaagt acactagtga ggatgtagta acactgagag 540  
tcacagatcc atcacaggca tctttctttg tgggtgtacaa tatgggtgacg acagaggtga 600  
ttgctgtgtt tgagaataca tcagatgagc ttttggagct ctttgagaac ttctgtgacc 660  
tttttcgtaa tgctaccctg cacagtgaag ttcaagtttc ctgctcagct tctagcaaca 720  
atatttgaag gcagatccag cgcgggttca aagacactat tataaatgcc aagtatggag 780  
ggcacacaga ggcagtagc cggctgctgg gtcagctccc catcagtgct cagtcttaca 840  
gcggtagccc ctatctggat ttgtctctct tcagttatga tgacaagtgg gtatctgtca 900  
tggagcggcc caagacttgt ggagatcacc caatcaggtt ctatgcccg gactcgggcc 960  
tgctcaagtt tgagatccag gcggggttat tgggcgcgcc catcaaccac acagtgcgac 1020  
gccttgttgc cttcaccttt cacccttttg agcctttcgc tatttctgtg cagaggacta 1080  
atgctgagta tgttgtcaac ttccatatgc gacactgctg cagtaggtg cctcaccaga 1140  
gccagattat ctggtcttcc aagactttgc cactcactta tctcagtgga ctccaaagca 1200

09629469.072800

aaagctcccg actactagct ctgttagttc cagcctgcta tacctcagat gggagagagc 1260  
cagagagagg agtgagggtg gctcaaccta atggaatttt taaattgtat acaatactgc 1320  
tactgattgt tataatatcc ttttgcgttt tccctgtggg aatgccagc attaattaag 1380  
tccatttcac ttttgcttta ctttgcattt gattgctgtg aagatgaaag cattagactt 1440  
ttatcccttt catgtcactt cttcggcatt atggtttgca tctgaaagca gttaaatctt 1500  
gtttactgat gagaatgaca tacatccttt ccatttagct cataagcacg gctatctttt 1560  
taagagaaaa ataaagccat ggtattttca tactt 1595

<210> 10668

<211> 268

<212> PRT

<213> Homo sapiens

<400> 10668

Met	Ala	Asn	Pro	Phe	Arg	Asp	Pro	Phe	Ile	Asn	Ser	Leu	Lys	His	Arg
1				5					10					15	
Leu	Leu	Val	Tyr	Leu	Trp	Arg	Arg	Ala	Glu	Gln	Asp	Gly	Ser	Ala	Met
			20					25					30		
Ala	Lys	Arg	Arg	Phe	Phe	Gln	Tyr	Phe	Asp	Gln	Leu	Arg	Gln	Leu	Arg
		35				40						45			
Met	Trp	Lys	Met	Gln	Leu	Leu	Asp	Glu	Asn	His	Leu	Phe	Ile	Lys	Tyr
	50				55						60				
Thr	Ser	Glu	Asp	Val	Val	Thr	Leu	Arg	Val	Thr	Asp	Pro	Ser	Gln	Ala
65					70					75					80
Ser	Phe	Phe	Val	Val	Tyr	Asn	Met	Val	Thr	Thr	Glu	Val	Ile	Ala	Val
				85					90					95	
Phe	Glu	Asn	Thr	Ser	Asp	Glu	Leu	Leu	Glu	Leu	Phe	Glu	Asn	Phe	Cys
			100					105					110		
Asp	Leu	Phe	Arg	Asn	Ala	Thr	Leu	His	Ser	Glu	Val	Gln	Phe	Pro	Cys
	115						120					125			
Ser	Ala	Ser	Ser	Asn	Asn	Phe	Ala	Arg	Gln	Ile	Gln	Arg	Arg	Phe	Lys
	130					135					140				
Asp	Thr	Ile	Ile	Asn	Ala	Lys	Tyr	Gly	Gly	His	Thr	Glu	Ala	Val	Arg
145				150						155					160
Arg	Leu	Leu	Gly	Gln	Leu	Pro	Ile	Ser	Ala	Gln	Ser	Tyr	Ser	Gly	Ser
			165						170					175	
Pro	Tyr	Leu	Asp	Leu	Ser	Leu	Phe	Ser	Tyr	Asp	Asp	Lys	Trp	Val	Ser
		180						185					190		
Val	Met	Glu	Arg	Pro	Lys	Thr	Cys	Gly	Asp	His	Pro	Ile	Arg	Phe	Tyr
	195						200					205			
Ala	Arg	Asp	Ser	Gly	Leu	Leu	Lys	Phe	Glu	Ile	Gln	Ala	Gly	Leu	Leu
	210				215						220				
Gly	Arg	Pro	Ile	Asn	His	Thr	Val	Arg	Arg	Leu	Val	Ala	Phe	Thr	Phe
225				230						235					240
His	Pro	Phe	Glu	Pro	Phe	Ala	Ile	Ser	Val	Gln	Arg	Thr	Asn	Ala	Glu
			245						250					255	
Tyr	Val	Val	Asn	Phe	His	Met	Arg	His	Cys	Cys	Thr				

09629469.072800



260

265

<210> 10669  
<211> 1527  
<212> DNA  
<213> Homo sapiens

<400> 10669

```

aattaaatgg ccacaagtgc ctggtggtcc ctttgttggc ccacacagat ctgcctgcct 60
tgaggagaggt atctggggct gactggtggg tgttccattg cagaaagctt ctgagacaca 120
cagaagtgcg cacagttggg agacgtgata cccgcagtgc tgcagtcctg cttgccttgt 180
tggtgttctc tcaacttcta cattagagac ttagttatga tgagtgtggc cgcccttagg 240
aaggcatgtt atatactcac ttaaattgct cagccccctt ttttaaaata ctttgttcag 300
tggttaattg catagactag agctagactg caagagtttg agccttaact ctatcccatg 360
ttagctgtga ccttgggcag gtgcctaat ctctctgtgc cttagtgtcc tcaccttcaa 420
attaagataa tacaggcttg ttatgaggat taaatgagtt aatatttata atgcacttaa 480
cacttaaaat gttcttgttc tttgtaattg ttttcaaga tgaagtgtgt aactaataaa 540
gtgagggggg attaacagcg aggactggct tgccaccaac agagcaaact tttagattca 600
tattcaactc aagcctccca gtttcaacc tgtatacaac tgtccagagt ctgtacatgg 660
aggcacgcag ccacgtggcc gagaggagcc gctgggcagg acaagcacgt gggcggctgc 720
cgtatgtccc tgagccctca gagctgcccc tagcagtgtc gttggacagc aggaatgttg 780
agttaaagac tcacatgcac tttaaaattt gagcagatag aaatgtcagt ggggactgcc 840
tctgtctgtg cttaggttct ccactgtacg aggagcagag ctgtgcgcct aggaggtcct 900
cagtagtcct ggcagtctgg ctgactgcgc acagcgaggg gtggggactg aggaagcaca 960
ggctgctttc ctgagtgcag ggtcctccgt ctgttaaggc tccagttgtc ctttgtcttc 1020
aggtgcctca acataattta gtatttcttg actctccagt ggtgtttcct gccaaaagca 1080
aatttggtgt ttctgcttca cctgtgtgtt ctttggctct aaataggttt tcttttctctg 1140
gtgaacaata tgggctagaa ggagcagctg tggctgatgc tctggactga actttctcat 1200
gaaaagcagc ttgaaagaag gttggttggc tcaggaggca ctaaatacaa gctgagagct 1260
tcttctagcc cgcgtgctgt gggcaccgca gcccaggca tcatgctgtt ggcttatgat 1320
tgagatcgc agactgccga ggtataagga cagcagaggg gccacatggt ggtcttcatt 1380
cagggacatt ttactcttca tcacactgtt ttgcctagaa acagattatt taaattggaa 1440
gagacaaaaa aaattataat accagaattt aaaaactcct ctggcctttt ggaaaaattg 1500
ccgtaaaaaa tctgatctat atagtgc 1527

```

<210> 10670  
<211> 1341  
<212> DNA  
<213> Homo sapiens

<400> 10670

```

atgttacatg ttcggaataa ctttcagttg ctcaagggca ataagaaaat ttgaggccgg 60
gtgtggtggc tcacgcctgt aatcccagca ctttgggagg ctgaggtggg cgaattgctt 120
gagcccagga gttcgagacc agccggggca acatggcaaa accctgtctc tactaaaaat 180
acaaaaatta gctgggtgtg gtggtgcatg cctgtagtcc cagctactcg ggaggctgag 240
gtgggaggat cccgtgagcc tgggaggtgg agtttgcagt gagctaagat cgtgccactg 300

```

09629469.072800

```

cactccggcc tgggtgatgg agcaagacct cgtctcagaa aattggaaac tattgactaa 360
gagaagtttc taggttttgc ctgaattgtc ttttgtacat acagtgaatt gttttgctgt 420
tctccccact ccatattaat gcaggagcca ggttgggtctg ttaggatgaa caaaggttga 480
ggggaggggca ggattcgtgc atctgggggc caaacacatg ttccgtcttg attgccttaa 540
gagttactag cgaggtcagt gttaggcttg caatagggat tttaaaatac actaactagt 600
tccttagcta ccttcacata cattctatag gccttcttaa attagcacta acctccactt 660
ccttctctgc ccattgcct cccaaatatg ctatggagct atttttgta ccacgttata 720
acgtgaatat ttatacagta gcctcttcag gctttgtaat tttcattcca aaaatgcccg 780
gtgtgatgct ttacactcta caaagtatgg tttaaaggca caaggtcag gcctttgtca 840
tagcagttga atgtgcattg acatattttt ctatgatttt ttaaaattac aatagaaaaa 900
taagctgttg taacgtgtaa ggcatgaca atttttgtat ttatatgtga aatcagattt 960
ctataactcg tatttgtgta cagaattctc aatggattta tatattgtga aatttttatt 1020
tgagattggg atgtggatta tgcttaacag tgagagctga aatgagacca tttactttgt 1080
ttaaaatgct gtactgtgca agtttggaaa tgtaaattaa tttactgtat ataatatctt 1140
gagtttgttt atacctcaa gtttttacac tgaagataaa ctagctttaa ttcaaaactt 1200
tttttttctt tataaggga taagctgttg agctaaacct gtataactgt gctttttatt 1260
ttctggatgc acaatgaaag tttatacttg tatctcactg catcatatct gattgcagaa 1320
attaaagcac aatttacaag c

```

<210> 10671  
 <211> 1582  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (41).. (1582)

```

<400> 10671
tttcaaagac ataaactcct gctgcccaca ggaagcaaca atgcaagaac aagatatgcc 60
attcttgcga ggagggccag gcatgtacaa ggtagtgaag acgggaccct caggtcacaa 120
catcagaagc tgcctaacc ttagaggtat cccaattgga atgttagttc tgggaaacaa 180
agtcaaagca gtgggagagg taaccaattc tgaagggaca tgggtgcaac tggatcagaa 240
cagcatggta gagttctgtg agagtgatga aggagaggca tggctccttag ctagagacag 300
gggcggaaac cagtacctcc gacatgaaga tgaacaagct cttctggatc agaattctca 360
aactcctcct ccaagccctt tctcagtgcg agcttttaaat aaaggggcaa gttgcagtgc 420
ccaaggattt gattatggac tcggaaatag caaagttttg actgttttac ccactgcagg 480
tgaccaactg agtgccatat tgaattccat tcagtcacga cccaatctcc cagctccttc 540
catctttgat caagctgcaa aacctccctc ttccctagta cacagcccat ttgtgttcgg 600
acagcccctt tccttcagc agcctcagct tcagagtgat cgaggaaaca totcaacatc 660
ttctaaacca gcctctacat caggaaaatc agagctgtcc totaaacaca gcagatcgct 720
taaacctgat ggacgtatga gccggactac tgctgatcag aagaagctaa ggggcacaga 780
aagtttatct gctagtgaat ccctcatctt aaaatctgat gctgcaaagt tgaggtcaga 840
ttcccacagt aggtcattat cccccaacca taacaccttg cagacattga aatctgatgg 900
gaggatgcct tctagctcca gagctgaatc cccaggacca ggttctcggt tgtcatctcc 960
taagccaaag actctcccag ccaataggct tagcccatcg ggtgctagtt ctccacgctc 1020
ctcctcacca catgataaaa atctacctca aaaaagtact gctcctgtta agacaaagct 1080

```

```

tgatcctcct cgggaacgtt ctaaatoaga ctottacaca cttgatccag atacctccg 1140
caagaagaaa atgcccctca cagaaccttt gagaggacgg tcaacgtcac caaaacccaa 1200
atcagtacca aaggattcta cagattcccc tggatctgaa aatagagctc cctctcccca 1260
tgtggtacag gaaaacctcc acagtgaggt ggtogaagtc tgcacctcaa gtactttaaa 1320
aacaatatgt ctaacagaca gcacctgoga tgacagcagt gaattttaaga gtgtggatga 1380
aggttcaaat aaagttcatt ttagcattgg aaaagcacca ctgaaagatg aacaggaaat 1440
gagagcatct cccaaaataa gtcgaaaatg tgctaataga cacaccaggc ccaaaaaaag 1500
aaaaatcgag ttttcttttc aaaggagatg gatccaagcc tttagagcca gccaaagcaag 1560
ccatgtctcc ttctgtggcc ga 1582

```

<210> 10672  
 <211> 514  
 <212> PRT  
 <213> Homo sapiens

<400> 10672

Met	Gln	Glu	Gln	Asp	Met	Pro	Phe	Leu	Arg	Gly	Gly	Pro	Gly	Met	Tyr
1				5					10					15	
Lys	Val	Val	Lys	Thr	Gly	Pro	Ser	Gly	His	Asn	Ile	Arg	Ser	Cys	Pro
			20					25					30		
Asn	Leu	Arg	Gly	Ile	Pro	Ile	Gly	Met	Leu	Val	Leu	Gly	Asn	Lys	Val
		35					40					45			
Lys	Ala	Val	Gly	Glu	Val	Thr	Asn	Ser	Glu	Gly	Thr	Trp	Val	Gln	Leu
	50					55					60				
Asp	Gln	Asn	Ser	Met	Val	Glu	Phe	Cys	Glu	Ser	Asp	Glu	Gly	Glu	Ala
65					70				75					80	
Trp	Ser	Leu	Ala	Arg	Asp	Arg	Gly	Gly	Asn	Gln	Tyr	Leu	Arg	His	Glu
				85					90					95	
Asp	Glu	Gln	Ala	Leu	Leu	Asp	Gln	Asn	Ser	Gln	Thr	Pro	Pro	Pro	Ser
			100					105				110			
Pro	Phe	Ser	Val	Gln	Ala	Phe	Asn	Lys	Gly	Ala	Ser	Cys	Ser	Ala	Gln
	115					120					125				
Gly	Phe	Asp	Tyr	Gly	Leu	Gly	Asn	Ser	Lys	Val	Leu	Thr	Val	Leu	Pro
130					135						140				
Thr	Ala	Gly	Asp	Gln	Leu	Ser	Ala	Ile	Leu	Asn	Ser	Ile	Gln	Ser	Arg
145					150				155						160
Pro	Asn	Leu	Pro	Ala	Pro	Ser	Ile	Phe	Asp	Gln	Ala	Ala	Lys	Pro	Pro
				165				170					175		
Ser	Ser	Leu	Val	His	Ser	Pro	Phe	Val	Phe	Gly	Gln	Pro	Leu	Ser	Phe
			180					185					190		
Gln	Gln	Pro	Gln	Leu	Gln	Ser	Asp	Arg	Gly	Asn	Ile	Ser	Thr	Ser	Ser
	195					200						205			
Lys	Pro	Ala	Ser	Thr	Ser	Gly	Lys	Ser	Glu	Leu	Ser	Ser	Lys	His	Ser
	210					215					220				
Arg	Ser	Leu	Lys	Pro	Asp	Gly	Arg	Met	Ser	Arg	Thr	Thr	Ala	Asp	Gln
225				230					235					240	
Lys	Lys	Leu	Arg	Gly	Thr	Glu	Ser	Leu	Ser	Ala	Ser	Glu	Ser	Leu	Ile

008220" 69462960

-4157/13211-

				245						250					255				
Leu	Lys	Ser	Asp	Ala	Ala	Lys	Leu	Arg	Ser	Asp	Ser	His	Ser	Arg	Ser				
			260					265					270						
Leu	Ser	Pro	Asn	His	Asn	Thr	Leu	Gln	Thr	Leu	Lys	Ser	Asp	Gly	Arg				
		275					280					285							
Met	Pro	Ser	Ser	Ser	Arg	Ala	Glu	Ser	Pro	Gly	Pro	Gly	Ser	Arg	Leu				
	290					295				300									
Ser	Ser	Pro	Lys	Pro	Lys	Thr	Leu	Pro	Ala	Asn	Arg	Ser	Ser	Pro	Ser				
305					310					315					320				
Gly	Ala	Ser	Ser	Pro	Arg	Ser	Ser	Ser	Pro	His	Asp	Lys	Asn	Leu	Pro				
				325					330					335					
Gln	Lys	Ser	Thr	Ala	Pro	Val	Lys	Thr	Lys	Leu	Asp	Pro	Pro	Arg	Glu				
		340					345						350						
Arg	Ser	Lys	Ser	Asp	Ser	Tyr	Thr	Leu	Asp	Pro	Asp	Thr	Leu	Arg	Lys				
	355						360					365							
Lys	Lys	Met	Pro	Leu	Thr	Glu	Pro	Leu	Arg	Gly	Arg	Ser	Thr	Ser	Pro				
	370				375					380									
Lys	Pro	Lys	Ser	Val	Pro	Lys	Asp	Ser	Thr	Asp	Ser	Pro	Gly	Ser	Glu				
385					390					395					400				
Asn	Arg	Ala	Pro	Ser	Pro	His	Val	Val	Gln	Glu	Asn	Leu	His	Ser	Glu				
			405						410					415					
Val	Val	Glu	Val	Cys	Thr	Ser	Ser	Thr	Leu	Lys	Thr	Asn	Ser	Leu	Thr				
		420						425					430						
Asp	Ser	Thr	Cys	Asp	Asp	Ser	Ser	Glu	Phe	Lys	Ser	Val	Asp	Glu	Gly				
	435					440						445							
Ser	Asn	Lys	Val	His	Phe	Ser	Ile	Gly	Lys	Ala	Pro	Leu	Lys	Asp	Glu				
	450					455				460									
Gln	Glu	Met	Arg	Ala	Ser	Pro	Lys	Ile	Ser	Arg	Lys	Cys	Ala	Asn	Arg				
465					470					475					480				
His	Thr	Arg	Pro	Lys	Lys	Arg	Lys	Ile	Glu	Phe	Ser	Phe	Gln	Arg	Arg				
				485					490					495					
Trp	Ile	Gln	Ala	Phe	Arg	Ala	Ser	Gln	Ala	Ser	His	Val	Ser	Phe	Cys				
			500					505					510						
Gly	Arg																		

<210> 10673

<211> 1875

<212> DNA

<213> Homo sapiens

<400> 10673

aagaagatga agaaggaaac caggtgaact cagcaaggca gactggctgc ttacttcagc 60  
actattggaa ttatttcccg ctgttgccaa tggaaatcaa agaaaatgga tgtgacgtct 120  
gtgcaggtgg acggcagtcg gaggggctta ttctacttgc ttctcagtcg aacttgatag 180  
gagaatccag catcttaaag ttgcataatgt gtagcactaa tgtttctttt taaatagttg 240  
ggggaaaaatg acctagaaaa ccaaattgca gtttggttagc caaaattaac tcttggttta 300

009270.694690

```

tttgtccttt gtgtgtgaaa agtcctacta ttccgtgcgt cagacttcct cacagaactg 360
ttgactgggt ttggttctta gtactattga gatctttcgc gtcgatccca acggccttag 420
cggcggcaga ctggaataac acottacacc tttctggcct gcatttctgt agacttcact 480
ctcaagggag gagttttctt ttcttacgtt ttgacttttg cacaccatat gcactaggga 540
ttctggaaac ttctagcatg actgcaaaagt ggccaagaga ataaagtcct tgatgataaa 600
tcacagtata tcccttgagc ctcaacctat tgccagtgcct agattttttc tttttaatct 660
ctccgttttt gctaacgaaa acttgaaaag ottattttgga agcttaaatg ttttatcttt 720
tctccatgga ctaaacctct ccaggactct ctccggcacct ggatgtccag ctctcgaagc 780
agccagtcag atgggacatc acagttctct catctcctt gaggcagatg gacctcagct 840
catagtgatc aaccgttgtg ctgtgtgtca ttgctacccc ataaccagtt acagcataga 900
tgtcgtagt ctcaaggggc agctgcgtat ttaatttaac tctggtttat gacctgacaa 960
aaagccaaaa atatcactct ttccaggagt ggggaaaact gaggatgcct cccaagtcta 1020
gtggcttcac aaaagatcat cctgtcttct ctgtcatgcc cactgagctc ctattccctt 1080
acgtgttaca atacacaatt aaaaacgcca ttgtgggagt gaagggttga catttaagga 1140
aaaggttgag gtgtttctct catgggctgt ctaaaaggag agacacgttt ctttctttcc 1200
tttttttttg gctaggccca ccattgacttg tgacctagaa ccccaggat taacagaggc 1260
ctcacattta ctctgcaagc tgactccaaa ggagtctaca gtcttactt gtcatgccac 1320
actcacacat ccagtagtgg tctctatcta cccgcattcc tagctagctg gactggcct 1380
caactccaaa gactgccttt aggaccatca aatggcctat gcaagcaagc ggggtggtta 1440
ttaggacaga ttgtatattt tgtatattct gggaccatcc cttcaagaca cgtctataaa 1500
acaaaaatgg cgcttggtcc acacaagggt gctgctccct cctaccagct ggctccctc 1560
ctgtcctcct ttgactgttt gactcattga ctgttaaaat gccaccccat acatatttg 1620
gatgcaaaac tgaagtcaaa aggaaataat ataagaaaca caaacacata tatgacagca 1680
accttcaaga tctgggtttt cagctttctg caacctttgt tttcactgaa atgttgaaac 1740
tactcgtctg agggcaaagg aacctcctca caaatgotat agctgccaat tggacacttg 1800
gggcatttcg aggtctggcc ctaagaattt actttccctt tccctttttc tatttagacc 1860
agaaaaaaca aaaaac

```

<210> 10674  
 <211> 2038  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (176)..(1219)

```

<400> 10674
cgctttctgt cagcctctct cctctctcct ctccctctct ottcctctcg ctctctctct 60
cgcacctgag cgtacgcacc tgcccgggcc cggctccctc ctctctctcc ctccctcttt 120
ccccgcccgg ccgcgggagc ctctgtggctg cgtcaccgcc gcccccccag acaagatgga 180
caccgcggag gaagacatat gtagagtgtg tccgtcagaa ggaacacctg agaaaccgct 240
ttatcatcct tgtgtatgta ctggcagtat taagtttatc catcaagaat gtttagttca 300
atggctgaaa cacagtcgaa aagaatactg tgaattatgc aagcacagat ttgcttttac 360
accaatttat tctccagata tgccttcacg gcttccaatt caagacatat ttgctggact 420
ggttacaaagt attggcactg caatacgata ttggtttcat tatacacttg tggcctttgc 480
atggttggga gttgttcctc ttacagcatg ccgcactctac aagtgtttgt ttactggctc 540

```

```

cgtgagctca ctactgacgc tgcattaga tatgtgtca acggaaaatt tgttggcaga 600
ttgtttgcag ggttgttttg tggtagctg cacactgtgt gcattcatca gcctggtgtg 660
gttgagagag cagatagtc atgggggagc accaatttgg ttggagcatg ctgccccacc 720
gttcaatgct gcgggggcac accaaaatga ggctccagca ggaggaaatg gtgcagaaaa 780
tgttgctgct gatcagcctg ctaaccacc agctgagaac gcagtgggtg gggaaaaccc 840
tgatgccag gatgaccagg cggaagagga ggaggaggac aatgaggagg aagatgacgc 900
tgggtgtggag gatgcccag atgctaataa cggagcccag gatgacatga attggaatgc 960
tttagaatgg gaccgagctg ctgaagagct tacatgggaa agaattgctag gacttgatgg 1020
atcactagtt tttctggaac atgtcttctg ggtgggtatct ttaaatacac tgttcattct 1080
tgtttttgca ttttgccctt accatattgg tcatctctcc cttgttgggt tgggatttga 1140
agaacacgtg agtataatac ttttacaagg ttactttcat tcattactcc caaatgtgat 1200
tattaataaa atagtattct aaagagtttc atcatttctt cattggcatt atgcaaggga 1260
atagttaggc aataccgtct cattcttttt taaaaaaaat aacagtggct caagagatag 1320
tggtcatgtt gccaaactaat gaaaatgtgc tctgaaatcc agtcagctgg gtgggcctga 1380
ggcataccgt gggaaagttt cccacaggct gattttctgt ccatctcaag aacctgtatg 1440
ttctcttctt tccctttccc cagggtgccc ctgctgaatt tagaaaagta acaatatatc 1500
aatcaattta aaaagggtag aatatttttg aatgacgggt ttagtggtt tctagagtgc 1560
tttagttttg acattttatc agtattttcc agaggtaaat aaattttgga aggattatta 1620
cttctctgtt ggggcccctag aacaatttag tcttttatgg aaaagctgac tatctgggat 1680
catatgtcca gtttgtatat ttgagatctg agagatcacg ttctgaagtc ttctcatatt 1740
tagtacacct ctgattctca ctagttaga gcaagaactt gaaaggttca ggtaagtgtt 1800
ttgaaaaatt ttgactttcc aaacttttgc cacttgctat ctgaaactca ggaatcaaaa 1860
aataccgaca ggcaactgta ctttcaaaa tctttctata agttgagaat gggacagatt 1920
tgcagagcaa gggaaacttg aacagttact tctagtggta ggaaatgagg tggctaggat 1980
attaccacgc tgggtgggtga cttgggcagt gtgttctgct tttcagtgg tagccttt 2038

```

<210> 10675  
 <211> 348  
 <212> PRT  
 <213> Homo sapiens

<400> 10675

Met	Asp	Thr	Ala	Glu	Glu	Asp	Ile	Cys	Arg	Val	Cys	Arg	Ser	Glu	Gly
1				5				10						15	
Thr	Pro	Glu	Lys	Pro	Leu	Tyr	His	Pro	Cys	Val	Cys	Thr	Gly	Ser	Ile
			20					25					30		
Lys	Phe	Ile	His	Gln	Glu	Cys	Leu	Val	Gln	Trp	Leu	Lys	His	Ser	Arg
			35				40					45			
Lys	Glu	Tyr	Cys	Glu	Leu	Cys	Lys	His	Arg	Phe	Ala	Phe	Thr	Pro	Ile
			50				55				60				
Tyr	Ser	Pro	Asp	Met	Pro	Ser	Arg	Leu	Pro	Ile	Gln	Asp	Ile	Phe	Ala
							70				75				80
Gly	Leu	Val	Thr	Ser	Ile	Gly	Thr	Ala	Ile	Arg	Tyr	Trp	Phe	His	Tyr
Thr	Leu	Val	Ala	Phe	Ala	Trp	Leu	Gly	Val	Val	Pro	Leu	Thr	Ala	Cys
Arg	Ile	Tyr	Lys	Cys	Leu	Phe	Thr	Gly	Ser	Val	Ser	Ser	Leu	Leu	Thr

```

      115              120              125
Leu Pro Leu Asp Met Leu Ser Thr Glu Asn Leu Leu Ala Asp Cys Leu
      130              135              140
Gln Gly Cys Phe Val Val Thr Cys Thr Leu Cys Ala Phe Ile Ser Leu
145              150              155              160
Val Trp Leu Arg Glu Gln Ile Val His Gly Gly Ala Pro Ile Trp Leu
      165              170              175
Glu His Ala Ala Pro Pro Phe Asn Ala Ala Gly His His Gln Asn Glu
      180              185              190
Ala Pro Ala Gly Gly Asn Gly Ala Glu Asn Val Ala Ala Asp Gln Pro
      195              200              205
Ala Asn Pro Pro Ala Glu Asn Ala Val Val Gly Glu Asn Pro Asp Ala
      210              215              220
Gln Asp Asp Gln Ala Glu Glu Glu Glu Asp Asn Glu Glu Glu Asp
225              230              235              240
Asp Ala Gly Val Glu Asp Ala Ala Asp Ala Asn Asn Gly Ala Gln Asp
      245              250              255
Asp Met Asn Trp Asn Ala Leu Glu Trp Asp Arg Ala Ala Glu Glu Leu
      260              265              270
Thr Trp Glu Arg Met Leu Gly Leu Asp Gly Ser Leu Val Phe Leu Glu
      275              280              285
His Val Phe Trp Val Val Ser Leu Asn Thr Leu Phe Ile Leu Val Phe
      290              295              300
Ala Phe Cys Pro Tyr His Ile Gly His Phe Ser Leu Val Gly Leu Gly
305              310              315              320
Phe Glu Glu His Val Ser Ile Ile Leu Leu Gln Ser Tyr Phe His Ser
      325              330              335
Leu Leu Pro Asn Val Ile Ile Asn Lys Ile Val Phe
      340              345

```

<210> 10676  
 <211> 1794  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (4).. (684)

<400> 10676  
 aaaatggacg taagatttta tccacctcca gccagcccg ccgctgcgcc cgacgctccc 60  
 tgtctgggac ctctccctg cctggacccc tactattgca acaagtttga cggtgagaac 120  
 atgtatatga gcatgacaga gccgagccag gactatgtgc cagccagcca gtccctacct 180  
 ggtccaagcc tggaaaagtga agacttcaac attccaccaa ttactcctcc ttccctccca 240  
 gaccactcgc tgggtgcacct aactgccatg catcctagtc tccccaggaa catagccccc 300  
 aagccgaata accaaatgcc agtgactgtc tctatagcaa acatggctgt gtcccctcct 360  
 cctcccctcc agatcagccc gcctcttcac cagcatctca acatgcagca gcaccagccg 420

09529459.072800

```

ctcaccatgc agcagcccct tgggaaccag ctccccatgc aggtccagtc tgccttacac 480
tcaccaccca tgcagcaagg atttactctt caaccgact atcagactat tatcaatcct 540
acatctacag ctgcacaagt tgtcaccag gcaatggagt atgtgcgttc ggggtgcaga 600
aatcctcccc cacaaccggt ggactggaat aacgactact gcagtagtgg gggcatgcag 660
agggacaaaag cactgtacct tacttgagaa tctgaacacc tottctttcc actgaggaat 720
tcagggaagt gttttcacca tggattgctt tgtacagtca aggcagttct ccattttatt 780
agaaaataca agttgctaag cacttaggac catttgagct tgtgggtcac ccactctgga 840
agaaatagtc atgcttcttt attatTTTTT taatccttta tggacattgt ttttcttctt 900
ccctgaagga aatttggacc attcagattt tatgttgggt ttttgcgtgt aagtgcgtgcg 960
ctctagtaac tgccttagca actgtagatg tctcggataa aagtcctgga ttttcattg 1020
gttttcataa tgggtgttta tatgaaacta ctaaagactt tttaaatggc ttgatgtagc 1080
agtcatagca agtttgtaaa tagcatctat gttacactct cctagagtat aaaatgtgaa 1140
tgtttttgta gctaaattgt aattggaact ggctcattcc agtttattga tttcacaaata 1200
ggggttaaat tggcaaacat tcatattttt acttcatttt taaaacaact gactgatagt 1260
tctatatttt caaaatattt gaaaataaaa agtattccca agtgatttta atttaaaaac 1320
aaattggctt tgtctcattg gtcagacaaa aagaaactag tattaaggga agcgcaaca 1380
catttatttt gtactgcaga aaaattgctt ttttgtatca ctttttgtgt aatgggttagt 1440
aaatgtcatt taagtccttt tatgtataaa actgccaaat gottacctgg tattttatta 1500
gatgcagaaa cagattggaa acagctaaat tacaactttt acatatggct ctgtcttatt 1560
gtttcttcat actgtgtctg tatttaattt ttttttatgg aacctgttgc gcctatttat 1620
gaaataataa atataggtgt ttgtaagtaa atttgtagt atttgaaaga ggtttctttg 1680
atgttttaac ttttgcgtggc aaaaaaaaaat tcacgcttgg tgtgaatact ttattattta 1740
gtttttacgg taacatgaat aaagccaaac ctgcttttca tttagcagca aatt 1794

```

<210> 10677  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

```

<400> 10677
Met Asp Val Arg Phe Tyr Pro Pro Pro Ala Gln Pro Ala Ala Ala Pro
 1             5             10             15
Asp Ala Pro Cys Leu Gly Pro Ser Pro Cys Leu Asp Pro Tyr Tyr Cys
          20             25             30
Asn Lys Phe Asp Gly Glu Asn Met Tyr Met Ser Met Thr Glu Pro Ser
          35             40             45
Gln Asp Tyr Val Pro Ala Ser Gln Ser Tyr Pro Gly Pro Ser Leu Glu
          50             55             60
Ser Glu Asp Phe Asn Ile Pro Pro Ile Thr Pro Pro Ser Leu Pro Asp
          65             70             75             80
His Ser Leu Val His Leu Thr Ala Met His Pro Ser Leu Pro Arg Asn
          85             90             95
Ile Ala Pro Lys Pro Asn Asn Gln Met Pro Val Thr Val Ser Ile Ala
          100             105             110
Asn Met Ala Val Ser Pro Pro Pro Pro Leu Gln Ile Ser Pro Pro Leu
          115             120             125
His Gln His Leu Asn Met Gln Gln His Gln Pro Leu Thr Met Gln Gln

```



130 135 140  
Pro Leu Gly Asn Gln Leu Pro Met Gln Val Gln Ser Ala Leu His Ser  
145 150 155 160  
Pro Thr Met Gln Gln Gly Phe Thr Leu Gln Pro Asp Tyr Gln Thr Ile  
165 170 175  
Ile Asn Pro Thr Ser Thr Ala Ala Gln Val Val Thr Gln Ala Met Glu  
180 185 190  
Tyr Val Arg Ser Gly Cys Arg Asn Pro Pro Pro Gln Pro Val Asp Trp  
195 200 205  
Asn Asn Asp Tyr Cys Ser Ser Gly Gly Met Gln Arg Asp Lys Ala Leu  
210 215 220  
Tyr Leu Thr  
225

<210> 10678  
<211> 1946  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (276).. (857)

<400> 10678  
aggttcgaat ctccgccgct tcgcggttgc ttctcaacgt ccggggccgca tctcggcggc 60  
ggcgagggct gagcgcgga gctgcctccg agccggagcc ccagccctag gccctgcgcg 120  
agctgccccg ccctaccccc tcacgcgtcc tgctgcctcc tcgcccact tcggcctgtc 180  
cctctctcgc gcgctcagtc ctgcctcttc gccccccgca gctatcggca ctcggtctcc 240  
cgcgcttggc gggctccgcc cgagcctctg ggcccatggc caagcggcgt gcggccgagc 300  
cggtgacgtt ccacgtgcct tggaagcggc tctgtctttg cgaactcgtc gagcagccgc 360  
cgccaccgcc tctctggatc cgcccgcccg gggctgcgca tgctgggcag ctctcggcg 420  
tcccagagca gcaccgaaag cgcaaatcg acgcagggac catggcagag ccctcggctt 480  
cgcccagcaa gcgccgtgac agcggggaca acagcggccc gagcggccag gagcgtgagg 540  
accacggtct ggagacaggc gatccgcgcg tgccgcgcgc gcccgactg ccggggcccg 600  
gggaggagct cccggggcgc cggtcccg gggcggttg cgacgacgg gcggggcgcg 660  
caggaccccc gcggggagac tggggggtcg catcgtgcca gcacaatgaa gaattttggc 720  
agtataatac cttccaatac tggaggaatc ctttgcctcc tattgatctg gcagacattg 780  
aagatttaag tgaagacacc ctgacagaag caacacttca gggcaggaat gaaggggctg 840  
aggttgacat ggagtcctga tgtaaggagc cgaagcagtg ggattggctg atttgaggag 900  
atgtctctaa gtgaattctc gtattcttaa gggaaaagt attttccata cttgaagtta 960  
tatttccaaa cctgagaaat gaagaaagt tgttctgaca ttaaatacct acagtacta 1020  
ctgaacctct taataaggat ttgtcaagga tagagtacag ttgtagggga agtattttat 1080  
gtatgcattc ttagagcaaa aagttttgtt taaattctag aattgaagg actgatctta 1140  
taaaaagaaa ttctagcagt tttagaaata ggtgggaaaa actcaaata tcttcctatc 1200  
tgcacaaaaa agtttatttg tggatatataaatgaatatt gttttataat aacttgtaa 1260  
taaagtactt tctaatacat tctattgact ctgttagttg aacaaatagc tgacttgaac 1320  
atctatgcaa acttaagatg ggcgggattg ttgtaaaagc tattgtttta aaagagcttt 1380

09629469.072800

ctaaatgtaa agtagtgata atttcaattt gggtagcgtg ttigcaaagc ttccaatatt 1440  
 tgatgttggg taagctctac tatgggcaac tgaagatgga taaagaaaaa tgaaaactga 1500  
 atcgggtgcct gcttccccct gttttcccag gattagagga aaaaatttat tgtataatca 1560  
 gcttcttggg ttigaattgc ttogaggcat ggttttattc cttattactt tagacctgta 1620  
 gttttcaaca ctgacagcac tttaaaaato ttgcctggg cctcactctt gagagattct 1680  
 catttaatag ttctgagggt ggtcttggat ataactattt ttttaaacac ctgtcctgtt 1740  
 tccctccatt cctctcatgt gcagacaggg ttgagaacca gtagactaat ggtcgttttt 1800  
 cctgtttaaa ggagataact aatttgagct gaagcaatgc ttcttaatta gctttgtttt 1860  
 tgttttgctc tgttggtggc ttgtttacaa ctgaattatt gtgttattac tatttcattg 1920  
 ttaaagaaat aaagtaagca atttgt 1946

<210> 10679  
 <211> 194  
 <212> PRT  
 <213> Homo sapiens

<400> 10679  
 Met Ala Lys Arg Arg Ala Ala Glu Pro Val Thr Phe His Val Pro Trp  
 1 5 10 15  
 Lys Arg Leu Leu Leu Cys Asp Phe Ala Glu Gln Pro Pro Pro Pro Pro  
 20 25 30  
 Leu Trp Ile Arg Pro Pro Gly Val Ala His Ala Gly Gln Leu Leu Gly  
 35 40 45  
 Val Pro Glu Gln His Arg Lys Arg Lys Ile Asp Ala Gly Thr Met Ala  
 50 55 60  
 Glu Pro Ser Ala Ser Pro Ser Lys Arg Arg Asp Ser Gly Asp Asn Ser  
 65 70 75 80  
 Ala Pro Ser Gly Gln Glu Arg Glu Asp His Gly Leu Glu Thr Gly Asp  
 85 90 95  
 Pro Pro Leu Pro Pro Pro Pro Val Leu Pro Gly Pro Gly Glu Glu Leu  
 100 105 110  
 Pro Gly Ala Arg Leu Pro Gly Gly Gly Gly Asp Asp Gly Ala Gly Arg  
 115 120 125  
 Ala Gly Pro Pro Arg Gly Asp Trp Gly Val Ala Ser Cys Gln His Asn  
 130 135 140  
 Glu Glu Phe Trp Gln Tyr Asn Thr Phe Gln Tyr Trp Arg Asn Pro Leu  
 145 150 155 160  
 Pro Pro Ile Asp Leu Ala Asp Ile Glu Asp Leu Ser Glu Asp Thr Leu  
 165 170 175  
 Thr Glu Ala Thr Leu Gln Gly Arg Asn Glu Gly Ala Glu Val Asp Met  
 180 185 190  
 Glu Ser

<210> 10680  
 <211> 1804

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (200).. (1714)

<400> 10680

```

agtacttcct gttctcggct aaccctggcg ctgggcccgg ggctggagag tgaccgtggt 60
ctgagtgacc tgggacggct gcgtgggccc ggggtgggcct caaagccggg caccagacgg 120
gaggggcccg gctcgggccc gcgctgccc gcgccgggct ctggcgggcg gcgaggctgg 180
ggctgactcc tgcctcagga tgccggggga ggaagaggag cgggccttcc tgggtggccc 240
cgaggagctg gcgagcgccc tgaggaggga ttccgggcag gcgttttccc tggagcagct 300
ccggccgcta ctagccagct ctctgccgct agccgcccgc tacctgcagc tggacgccc 360
acgcccttgc cgctgcaacg ctcatgggga gcccggaaac tacctcaaca ccctgcccac 420
cccttcctgg gatgggccag acaagcagag cctggtcagg oggcttttgg cagtctacgc 480
actccccagc tggggccggg cagagctggc actgtcactg ctgcaggaga caccagga 540
ctatgagttg ggggatgtgg tagaagctgt gaggcacagc caggaccggg ccttcctgcg 600
ccgcttgctt gccaggagt gtgccgtgtg tggctgggcc ctgcccaca accggatgca 660
ggccctgact tcctgtgagt gcaccatctg tcctgactgc ttccgccagc acttcacat 720
cgccctgaag gagaagcaca tcacagacat ggtgtgccct gcctgtggcc gcccgcacct 780
caccgatgac acacagttgc tcagctactt ctctaccctt gacatccagc ttgcgagag 840
cctagagcca gatgcctatg cgttgttcca taagaagctg accgagggtg tgtgatgcg 900
ggaccccaag ttcttgtggt gtgtccagtg ctcccttggc ttcatatatg agcgtgagca 960
gctggaggca acttgtcccc agtgtcacca gaccttctgt gtgcgctgca agcgccagt 1020
ggaggacttc cagaactgga aacgcataaa cgaaccagaa taccaggccc agggcctagc 1080
aatgtatctt caggaaaacg gcattgactg ccccaaatgc aagttctcgt acgccctggc 1140
ccgaggaggc tgcatgcact ttcaactgtac ccagtgcgc caccagttct gcagcggctg 1200
ctacaatgcc ttttacgcca agaataaatg tccagagcct aactgcaggg tgaataaagtc 1260
cctgcacggc caccaccctc gagactgcct ctctacctg ogggactgga ctgctctccg 1320
gcttcagaag ctgctacagg acaataacgt catgtttaat acagagcctc cagctggggc 1380
ccgggcagtc cctggaggcg gctgccagt gatagagcag aaggagggtc ccaatgggct 1440
cagggacgaa gcttgtggca aggaactcc agctggctat gccggcctgt gccaggcaca 1500
ctacaaagag tatcttgtga gcctcatcaa tgcccactcg ctggaccag ccaccttgta 1560
tgagggtgaa gagctggaga cggccactga gcgctacctg cacgtacgcc cccagccttt 1620
ggctggagag gatccccctg cttaccaggc ccgcttgta cagaagctga cagaagagat 1680
acccttggga cagagtatcc cccgcaggcg gaagtagctg agggcgaggg tcccgatgag 1740
ggccccatgg cctgctccct caggaacagc tccagcacca ataaaggagc atottaccac 1800
ccag
1804

```

<210> 10681  
<211> 505  
<212> PRT  
<213> Homo sapiens

<400> 10681

Met Pro Gly Glu Glu Glu Glu Arg Ala Phe Leu Val Ala Arg Glu Glu

-4165/13211-

1	5	10	15
Leu Ala Ser Ala Leu Arg Arg Asp Ser Gly Gln Ala Phe Ser Leu Glu			
	20	25	30
Gln Leu Arg Pro Leu Leu Ala Ser Ser Leu Pro Leu Ala Ala Arg Tyr			
	35	40	45
Leu Gln Leu Asp Ala Ala Arg Leu Val Arg Cys Asn Ala His Gly Glu			
	50	55	60
Pro Arg Asn Tyr Leu Asn Thr Leu Pro Thr Pro Ser Trp Asp Gly Pro			
	65	70	75
Asp Lys Gln Ser Leu Val Arg Arg Leu Leu Ala Val Tyr Ala Leu Pro			
	85	90	95
Ser Trp Gly Arg Ala Glu Leu Ala Leu Ser Leu Leu Gln Glu Thr Pro			
	100	105	110
Arg Asn Tyr Glu Leu Gly Asp Val Val Glu Ala Val Arg His Ser Gln			
	115	120	125
Asp Arg Ala Phe Leu Arg Arg Leu Leu Ala Gln Glu Cys Ala Val Cys			
	130	135	140
Gly Trp Ala Leu Pro His Asn Arg Met Gln Ala Leu Thr Ser Cys Glu			
	145	150	155
Cys Thr Ile Cys Pro Asp Cys Phe Arg Gln His Phe Thr Ile Ala Leu			
	165	170	175
Lys Glu Lys His Ile Thr Asp Met Val Cys Pro Ala Cys Gly Arg Pro			
	180	185	190
Asp Leu Thr Asp Asp Thr Gln Leu Leu Ser Tyr Phe Ser Thr Leu Asp			
	195	200	205
Ile Gln Leu Arg Glu Ser Leu Glu Pro Asp Ala Tyr Ala Leu Phe His			
	210	215	220
Lys Lys Leu Thr Glu Gly Val Leu Met Arg Asp Pro Lys Phe Leu Trp			
	225	230	235
Cys Val Gln Cys Ser Phe Gly Phe Ile Tyr Glu Arg Glu Gln Leu Glu			
	245	250	255
Ala Thr Cys Pro Gln Cys His Gln Thr Phe Cys Val Arg Cys Lys Arg			
	260	265	270
Gln Trp Glu Asp Phe Gln Asn Trp Lys Arg Met Asn Asp Pro Glu Tyr			
	275	280	285
Gln Ala Gln Gly Leu Ala Met Tyr Leu Gln Glu Asn Gly Ile Asp Cys			
	290	295	300
Pro Lys Cys Lys Phe Ser Tyr Ala Leu Ala Arg Gly Gly Cys Met His			
	305	310	315
Phe His Cys Thr Gln Cys Arg His Gln Phe Cys Ser Gly Cys Tyr Asn			
	325	330	335
Ala Phe Tyr Ala Lys Asn Lys Cys Pro Glu Pro Asn Cys Arg Val Lys			
	340	345	350
Lys Ser Leu His Gly His His Pro Arg Asp Cys Leu Phe Tyr Leu Arg			
	355	360	365
Asp Trp Thr Ala Leu Arg Leu Gln Lys Leu Leu Gln Asp Asn Asn Val			
	370	375	380
Met Phe Asn Thr Glu Pro Pro Ala Gly Ala Arg Ala Val Pro Gly Gly			

09629469.072800

385		390		395		400
Gly Cys Arg Val	Ile Glu Gln Lys	Glu Val Pro	Asn Gly Leu	Arg Asp		
	405		410		415	
Glu Ala Cys Gly	Lys Glu Thr Pro	Ala Gly Tyr Ala	Gly Leu Cys	Gln		
	420		425		430	
Ala His Tyr Lys	Glu Tyr Leu Val	Ser Leu Ile	Asn Ala His	Ser Leu		
	435		440		445	
Asp Pro Ala Thr	Leu Tyr Glu Val	Glu Glu Leu	Glu Thr Ala	Thr Glu		
	450		455		460	
Arg Tyr Leu His	Val Arg Pro Gln	Pro Leu Ala	Gly Glu Asp	Pro Pro		
465		470		475		480
Ala Tyr Gln Ala	Arg Leu Leu Gln	Lys Leu Thr	Glu Glu Ile	Pro Leu		
	485		490		495	
Gly Gln Ser Ile	Pro Arg Arg Arg	Lys				
	500		505			

<210> 10682  
 <211> 2441  
 <212> DNA  
 <213> Homo sapiens

<400> 10682

ttgtttgtgt	tgttttgaga	cagggtctca	ctttgtcacc	caggctggag	tatagtggca	60
caaacatggc	tcactgcagc	ctcgacctcc	tgggctcaag	cagtcctcct	gcttcagccc	120
cacaagtagc	tgggactaca	ggcacacacc	accacgccc	cctctacaaa	aaattgtaaa	180
aatgagccag	gcatgtggtg	gtgtatgcct	acgatcctag	ctactcagga	ggctgaagtg	240
ggagaatttt	ttgagcccag	gaggtggagg	ctgcagtggg	ccataatggc	aacactgcgc	300
tccagcctgg	cagacagagg	gaagatatgt	ttgacatagt	ttagatattt	gtccccaccc	360
aaatccatgt	tgaatgttaa	tccccaatgt	tggagggtgg	gcctagtggg	aggtgtttgt	420
catgggggcg	gatccctcat	ggcttggtgc	tgtccttgtg	atagttagtt	cacttcatgt	480
gagatctggt	taaagtgtgt	ggcaccttcg	cctaccccca	cttgttccca	ccaagtgaga	540
ttcctgctcc	tgcttacctt	tctgccatgt	ttcttgaggc	ctcccagaag	ccaagcagat	600
gccagctcca	tgctccctgt	acagcctaca	gaagcatgag	ccagttaaac	ctctcttctt	660
tataaattac	ccagtccctga	gtatttcttt	atagcaatgc	gagaacggcc	taacacaagg	720
ttctagtagg	gagaaactag	caagtaaatg	gatacaagac	agtcactctt	acatttttaa	780
ttacaggtcc	ctttgagtag	acaaaacttt	aagaataggg	gaaatcattt	acatataaat	840
tgcataccat	gtcagggcct	catggactta	agaactaata	aattcagggt	ggtgatgctt	900
acctggggagg	cagaggggtgt	tatggggagga	aacagagtgg	tagtcaggca	aggataggat	960
agcagggtgtc	cttcccatat	gatccctgag	cctgggtcctt	atgotgtcaa	ctgactgtac	1020
ttgotacttt	aaaatctaag	ggattgaaaa	atgaatgttg	agtgattcct	aaactaacac	1080
gatattaaac	cgagttccag	actacaccag	cctaatttta	tttagtggca	gactctagct	1140
ctgttgccca	ggctggagtg	cagtgggtgtg	atctcagctt	attgcagtct	ccacctcctg	1200
agttcaagtg	attcctgtgc	ctcagttctcc	caagtagctg	ggactacagg	tacgtgccac	1260
cacacccagc	cagtttttgt	acttttagta	gagacagggt	ttcaccatgt	tgcccagggt	1320
ggcttcaaac	tcctggcctc	aagtgatcca	ctggcctcag	ccacccaaaa	tgctgggatt	1380
acaggcatga	gccaccgtgc	gggcctctac	tagcctaatt	gotgcaagtg	tgctagtctg	1440
atttatcaaa	ctagatgtaa	gctgcttgag	gctagggagg	cttttaccac	gtgcctgaga	1500

```

ggcagttgtt ggttataaac ttgccacatg gggctcagat cacctcaagg caaagctacc 1560
tggcctgggt tggaaatgctt tttctttttc ttaaagtcag ccctaaagaa catgggtatat 1620
taactcttga gggctgctaa accctggcac tgtgccagaa caagtgacaa tacgatagtt 1680
ttgagactaa tttcaaaaat gtttttttaa aaggcagtgt aaattcctaa cccgcttgta 1740
caaacctgtt aaattttact tttcaaaaaca aattccatct gctaagggtt gagttgaatt 1800
aagtagcaaa tgatatttat actcaggtaa atagaccatt ctactcact gtagacccta 1860
tattccttct catagcttta accattttct gtgtccctac ttttgacatc aaacttcaga 1920
ttttctgatg cttgcatgat tgttgaataa attagaatct gtagttgcta acatactaac 1980
aactgatttt aagctcaaaa aggcaacagt ggtgtccaat atacttttgt gggctttaat 2040
gctcagtatg gaatacgcaa tgaacggatg ttttatgcca ctaatggcta tattctacat 2100
cttgatggct tttagtaaata aaaatcatga ttccaagtct gaattacatg atgagatggt 2160
tcactagagc tgcaaatata caagtttgta tttaaaacaa aaataccgaa gccattttac 2220
tgaaaactag ttttatttta aaattaagtg catagcactc atctaattcc attggtgtag 2280
actttagcac catacttgct atttgcaatt aatgtogtaa cacagataca ttttggtttg 2340
cagtcgttac ttgagtagtg tttatttagt ggactttggt aaagcccttc atacatatta 2400
atctcttcac agtacacatt taatgatggt ccagtattct c 2441

```

<210> 10683  
 <211> 1753  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (134).. (1744)

<400> 10683

```

gacagagatt gaactcagct atgcaaagca actcaggaat ctttcaaaga agtaccaacc 60
taaaaagaac tcgaaggagg aagaagaata caagtatacg tcatgtaaag ctttcatttc 120
caacctgaac gaaatgaatg attacgcagg gcagcatgaa gttatctccg agaacatggc 180
atcacagatc attgtggact tggcacgcta tgttcaggaa ctgaaacagg agaggaaatc 240
aaactttcac gatggccgta aagcacagca gcacatcgag acttgctgga agcagcttga 300
atctagtaaa aggcgatttg aacgcgattg caaagaggcg gacagggcgc agcagtactt 360
tgagaaaatg gacgctgaca tcaatgtcac aaaagcggat gttgaaaagg cccgacaaca 420
agctcaaata cgtcaccaaa tggcagagga cagcaaagca gattactcat ccattctcca 480
gaaattcaac catgagcagc atgaatatta ccatactcac atccccaaca tottccagaa 540
aatacaagag atggaggaaa ggaggattgt gagaatggga gagtccatga agacatatgc 600
agaggttgat cggcagggtga tcccaatcat tgggaagtgc ctggatggaa tagtaaaagc 660
agccgaatca attgatcaga aaaatgattc acagctggta atagaagctt ataaatcagg 720
gtttgagcct cctggagaca ttgaatttga ggattacact cagccaatga agcgcactgt 780
gtcagataac agcctttcaa attccagagg agaaggcaaa ccagacctca aatttgggtg 840
caaatccaaa ggaaagtat ggccgttcat caaaaaaaat aagcttatgt cccttttaac 900
atccccccat cagcctcccc ctccccctcc tgcctctgcc tcaccctctg ctgttcccaa 960
cggccccag totcccaagc agcaaaagga acccctctcc caccgcttca acgagttcat 1020
gacctccaaa cccaaaatcc actgcttcag gagcctagag cgtgggggtg caacaccgga 1080
ggatttcagc aacctccac ctgaacaaag aaggaaaaag ctgcagcaga aagtcgatga 1140
gttaaataaa gaaattcaga aggagatgga tcaaagagat gccataacaa aaatgaaaga 1200

```



-4169/13211-

Lys Leu Trp Pro Phe Ile Lys Lys Asn Lys Leu Met Ser Leu Leu Thr  
245 250 255  
Ser Pro His Gln Pro Pro Pro Pro Pro Pro Ala Ser Ala Ser Pro Ser  
260 265 270  
Ala Val Pro Asn Gly Pro Gln Ser Pro Lys Gln Gln Lys Glu Pro Leu  
275 280 285  
Ser His Arg Phe Asn Glu Phe Met Thr Ser Lys Pro Lys Ile His Cys  
290 295 300  
Phe Arg Ser Leu Glu Arg Gly Gly Ala Thr Pro Glu Asp Phe Ser Asn  
305 310 315 320  
Leu Pro Pro Glu Gln Arg Arg Lys Lys Leu Gln Gln Lys Val Asp Glu  
325 330 335  
Leu Asn Lys Glu Ile Gln Lys Glu Met Asp Gln Arg Asp Ala Ile Thr  
340 345 350  
Lys Met Lys Asp Val Tyr Leu Lys Asn Pro Gln Met Gly Asp Pro Ala  
355 360 365  
Ser Leu Asp His Lys Leu Ala Glu Val Ser Gln Asn Ile Glu Lys Leu  
370 375 380  
Arg Val Glu Thr Gln Lys Phe Glu Ala Trp Leu Ala Glu Val Glu Gly  
385 390 395 400  
Arg Leu Pro Ala Arg Ser Glu Gln Ala Arg Arg Gln Ser Gly Leu Tyr  
405 410 415  
Asp Ser Gln Asn Pro Pro Thr Val Asn Asn Cys Ala Gln Asp Arg Glu  
420 425 430  
Ser Pro Asp Gly Ser Tyr Thr Glu Glu Gln Ser Gln Glu Ser Glu Met  
435 440 445  
Lys Val Leu Ala Thr Asp Phe Asp Asp Glu Phe Asp Asp Glu Glu Pro  
450 455 460  
Leu Pro Ala Ile Gly Thr Cys Lys Ala Leu Tyr Thr Phe Glu Gly Gln  
465 470 475 480  
Asn Glu Gly Thr Ile Ser Val Val Glu Gly Glu Thr Leu Tyr Val Ile  
485 490 495  
Glu Glu Asp Lys Gly Asp Gly Trp Thr Arg Ile Arg Arg Asn Glu Asp  
500 505 510  
Glu Glu Gly Tyr Val Pro Thr Ser Tyr Val Glu Val Cys Leu Asp Lys  
515 520 525  
Asn Ala Lys Gly Ala Lys Thr Tyr Ile  
530 535

<210> 10685  
<211> 1532  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (192).. (680)

09629469.072800



<400> 10685

```

taaagaactg cataggtgat ttctataaaa ctttgggaaga cccagatttg aatgtgagaa 60
gagtagcctt ggtcacattt aattcagcag cacataacaa gccatcatta ataagggatc 120
tattggatac tgttcttcca catctttaca atgaaacaaa agttagaaaag gagcttataa 180
gagaggtaga aatgggtcca tttaaacata cggttgatga tggctctggat attagaaagg 240
cagcatttga gtgtatgtac acacttctag acagttgtct tgatagactt gatatctttg 300
aatttctaaa tcatgttgaa gatggtttga aggaccatta tgatattaag atgctgacat 360
ttttaatgtt ggtgagactg tctacccttt gtccaagtgc agtactgcag aggttggacc 420
gacttggtga gccattacgt acaacatgta caactaaggt aaaggcaaac tcagtaaagc 480
aggagtttga caaacaagat gaattaaagc gatctgccat gagagcagta gcagcactgc 540
taaccattcc agaagcagag aagagtcacac tgatgagtga attccagtca cagatcagtt 600
ctaaccctga gctggcggct atctttgaaa gtatccagaa agattcatca tctactaact 660
tggaatcaat ggacactagt tagatgtttg ttccaccatgg ggaccattac atatgaccat 720
acaatgcact gaattgacag gttaatcata agacatggaa agagaagtgt ctaaaagctt 780
caaaatgttc cacttttttt tctttcatgg agactgtttg tttggctttc ttccattgtt 840
gtttttgtag catttatttc agaaatgtgt atttccataa tccagagggt gtaaaaccac 900
tagtgtttta gtggttacag caacatttga aatggaaaact aaaagttagg attttatgga 960
gtatggagat aggggtccagt atctattttac cctgtaatgt ttaggattaa aatgttaaaa 1020
ttttgtgacc atgaatttct ttcttttata aatttttctca tttaaaaatc aaaaatcttg 1080
caaaacaaaa accatgtttc tttttcttgt ataacttttt gttttcagca acataaattg 1140
atttttagct ggcagacaag aatatccata taagattttgt taaccatttc agagagtttg 1200
gcaattttta aaagataata aggtatcatt ttttaagtatg aaaattaaca atatccctgt 1260
tgcgcacact aattttgcat gagtaagttt acaaatatgt atcgtctgta aagcagcatg 1320
tgcaatttat tcataatata gaagttaaaa taagtattag tgcaattttc agatatttat 1380
ttttgcacag aaaacacatt atctggagag aaagaaagga gaatttttga gacttgggtt 1440
ttctaatgc cagtgtgaat ttgcagatgt tttcagaaaa tcaagtcaca gtaacaattt 1500
gccacttttt tctattataa atcttcttac tt                                     1532

```

<210> 10686

<211> 163

<212> PRT

<213> Homo sapiens

<400> 10686

```

Met Gly Pro Phe Lys His Thr Val Asp Asp Gly Leu Asp Ile Arg Lys
 1           5           10           15
Ala Ala Phe Glu Cys Met Tyr Thr Leu Leu Asp Ser Cys Leu Asp Arg
      20           25           30
Leu Asp Ile Phe Glu Phe Leu Asn His Val Glu Asp Gly Leu Lys Asp
      35           40           45
His Tyr Asp Ile Lys Met Leu Thr Phe Leu Met Leu Val Arg Leu Ser
      50           55           60
Thr Leu Cys Pro Ser Ala Val Leu Gln Arg Leu Asp Arg Leu Val Glu
      65           70           75           80
Pro Leu Arg Thr Thr Cys Thr Thr Lys Val Lys Ala Asn Ser Val Lys
      85           90           95

```

09629469.072600

-4171/13211-

Gln Glu Phe Asp Lys Gln Asp Glu Leu Lys Arg Ser Ala Met Arg Ala  
100 105 110  
Val Ala Ala Leu Leu Thr Ile Pro Glu Ala Glu Lys Ser Pro Leu Met  
115 120 125  
Ser Glu Phe Gln Ser Gln Ile Ser Ser Asn Pro Glu Leu Ala Ala Ile  
130 135 140  
Phe Glu Ser Ile Gln Lys Asp Ser Ser Ser Thr Asn Leu Glu Ser Met  
145 150 155 160  
Asp Thr Ser

<210> 10687  
<211> 1543  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (154).. (1227)

<400> 10687  
tactggccat tgctgcctgg ctacccgggg aggaggaggo gcaggagtga gctgcccagag 60  
accgcagggc aagtaagcgg ctgacggcgg aaagaccctg gggaaggggc tttgcccggc 120  
gctagaaaca ttttcccaa gcggtctcgc aaaatgacca gcctgttccg ccggagcagc 180  
agcggcagcg gcgggggtgg caccgccggg gcacgcgggg gcgggggagg cacggccggc 240  
ccccaggagc tcaacaacag ccggcctgcc cgccagggtgc gccgcctgga gctcaaccag 300  
gccatggacg acttcaagac catgttcccc aacatggatt acgacatcat cgaatgcgtg 360  
ctgcgcgcca acagcggcgc tgtggacgcc accatcgacc agctgctgca gatgaacctg 420  
gagggcgggtg gcagcagcgg cggcgtctat gaggacagct ccgactcgga ggacagcatc 480  
cccccgagga tcttggaag gactttggaa cctgatagct cggatgaaga gccccacct 540  
gtgtactccc cgccagccta ccacatgcac gtgttcgacc ggccctaccc tctggctccc 600  
ccgactccgc ctccccgtat cgacgcgctg ggctctggag cccctacaag ccagagacgc 660  
tatcggaact ggaaccacc actgctgggc aaccttcgg atgactttct ccgcatcctg 720  
ccccagcagc tggacagcat acagggtaac gctggggggc ccaagcctgg gactggagag 780  
ggatgtccac ctgccatggc tgggcccagg ccggagacc aggagagccg ctggaagcag 840  
tacctggaga gagatcgatt gaaatacga tcccagaaat ctaaatccag cagcgtggct 900  
gtcggaaaacg actttggctt ttctctcct gtcccaggaa ctggcgacgc caaccccgct 960  
gtgtctgaag atgccttatt cagggacaag ctgaaacaca tgggaaagtc caccggagg 1020  
aaactgtttg aacttgcccg agccttctca gagaagacca aaatgaggaa gtcaaaggag 1080  
aaacacttgt tgaagcatca gtcgctgggg gctgccgct caacagccaa cctcctggat 1140  
gatgtggagg gccacgcgtg tgatgaagac ttccggggca ggcgtcagga ggacaccaag 1200  
gtggaggaag gcctgcgaga aggacagtaa gagatgccag cagctcttcc ttgcccagaga 1260  
tgatctgacc cgggtgggggc agctggaaag caacactggc cccagctga agggccagc 1320  
tgcagccaga cagatggtgc ttgagaaccg agggccgggtg atcctccagc cacagtccag 1380  
ccaaccact gccactttcc atgggactta gaacttcgga gttgctgcct tgcaattgga 1440  
ggaaggacct ggggccccta taggcagcag ccaattacag ccccttttgt agccaggcgt 1500  
tcctatggtc aaagagtgga aatgcaggag ccaacctccc ttt 1543

000270-69462960

<210> 10688  
 <211> 358  
 <212> PRT  
 <213> Homo sapiens

<400> 10688

Met	Thr	Ser	Leu	Phe	Arg	Arg	Ser	Ser	Ser	Gly	Ser	Gly	Gly	Gly	Gly
1				5					10					15	
Thr	Ala	Gly	Ala	Arg	Gly	Gly	Gly	Gly	Gly	Thr	Ala	Ala	Pro	Gln	Glu
			20					25					30		
Leu	Asn	Asn	Ser	Arg	Pro	Ala	Arg	Gln	Val	Arg	Arg	Leu	Glu	Leu	Asn
		35					40					45			
Gln	Ala	Met	Asp	Asp	Phe	Lys	Thr	Met	Phe	Pro	Asn	Met	Asp	Tyr	Asp
	50					55				60					
Ile	Ile	Glu	Cys	Val	Leu	Arg	Ala	Asn	Ser	Gly	Ala	Val	Asp	Ala	Thr
65					70					75					80
Ile	Asp	Gln	Leu	Leu	Gln	Met	Asn	Leu	Glu	Gly	Gly	Gly	Ser	Ser	Gly
				85					90					95	
Gly	Val	Tyr	Glu	Asp	Ser	Ser	Asp	Ser	Glu	Asp	Ser	Ile	Pro	Pro	Glu
			100					105					110		
Ile	Leu	Glu	Arg	Thr	Leu	Glu	Pro	Asp	Ser	Ser	Asp	Glu	Glu	Pro	Pro
	115						120					125			
Pro	Val	Tyr	Ser	Pro	Pro	Ala	Tyr	His	Met	His	Val	Phe	Asp	Arg	Pro
	130					135					140				
Tyr	Pro	Leu	Ala	Pro	Pro	Thr	Pro	Pro	Pro	Arg	Ile	Asp	Ala	Leu	Gly
145					150					155					160
Ser	Gly	Ala	Pro	Thr	Ser	Gln	Arg	Arg	Tyr	Arg	Asn	Trp	Asn	Pro	Pro
				165					170					175	
Leu	Leu	Gly	Asn	Leu	Pro	Asp	Asp	Phe	Leu	Arg	Ile	Leu	Pro	Gln	Gln
			180					185					190		
Leu	Asp	Ser	Ile	Gln	Gly	Asn	Ala	Gly	Gly	Pro	Lys	Pro	Gly	Ser	Gly
	195					200						205			
Glu	Gly	Cys	Pro	Pro	Ala	Met	Ala	Gly	Pro	Gly	Pro	Gly	Asp	Gln	Glu
	210					215					220				
Ser	Arg	Trp	Lys	Gln	Tyr	Leu	Glu	Arg	Asp	Arg	Leu	Lys	Tyr	Glu	Ser
225				230						235					240
Gln	Lys	Ser	Lys	Ser	Ser	Ser	Val	Ala	Val	Gly	Asn	Asp	Phe	Gly	Phe
				245					250					255	
Ser	Ser	Pro	Val	Pro	Gly	Thr	Gly	Asp	Ala	Asn	Pro	Ala	Val	Ser	Glu
			260					265					270		
Asp	Ala	Leu	Phe	Arg	Asp	Lys	Leu	Lys	His	Met	Gly	Lys	Ser	Thr	Arg
	275						280					285			
Arg	Lys	Leu	Phe	Glu	Leu	Ala	Arg	Ala	Phe	Ser	Glu	Lys	Thr	Lys	Met
	290					295					300				
Arg	Lys	Ser	Lys	Arg	Lys	His	Leu	Leu	Lys	His	Gln	Ser	Leu	Gly	Ala
305					310					315					320

000220" 69462960



-4174/13211-

<212> PRT

<213> Homo sapiens

<400> 10690

Met Gly Leu Arg Asp Trp Leu Arg Thr Val Cys Cys Cys Cys Arg Cys  
1 5 10 15  
Glu Cys Leu Glu Glu Arg Ala Leu Pro Glu Lys Glu Pro Leu Val Ser  
20 25 30  
Asp Asn Asn Pro Tyr Ser Ser Phe Gly Ala Thr Leu Val Arg Asp Asp  
35 40 45  
Glu Lys Asn Leu Trp Ser Met Pro His Asp Val Ser His Thr Glu Ala  
50 55 60  
Asp Asp Asp Arg Thr Leu Tyr Asn Leu Ile Val Ile Arg Asn Gln Gln  
65 70 75 80  
Ala Lys Asp Ser Glu Trp Gln Lys Leu Asn Tyr Asp Ile His Thr  
85 90 95  
Leu Arg Gln Val Arg Arg Glu Val Arg Asn Arg Trp Lys Cys Ile Leu  
100 105 110  
Glu Asp Leu Gly Phe Gln Lys Glu Ala Asp Ser Leu Leu Ser Val Thr  
115 120 125  
Lys Leu Ser Thr Ile Ser Asp Ser Lys Asn Thr Arg Lys Ala Arg Glu  
130 135 140  
Met Leu Leu Lys Leu Ala Glu Glu Thr Ser Ile Phe Pro Thr Ser Trp  
145 150 155 160  
Glu Leu Ser Glu Arg Tyr Leu Phe Val Val Asp Arg Leu Ile Ala Leu  
165 170 175  
Asp Ala Ala Glu Glu Phe Phe Lys Leu Ala Arg Arg Thr Tyr Pro Lys  
180 185 190  
Lys Pro Gly Val Pro Cys Leu Ala Asp Gly Gln Lys Glu Leu His Leu  
195 200 205  
Trp Gly Asp Leu Ser Cys Arg Leu Ala His Met Gln Gly Val Leu His  
210 215 220

<210> 10691

<211> 1457

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (166).. (930)

<400> 10691

gtagttggga acagcggaac gctggtcccg gggactgagt aaggtgtctg gatcggaggg 60  
aggttcgggt gggcatcggg cggctggaag agctcgactc gtcccgctgg gaaagcgca 120  
gtctgagtgg aaccctggac gacttcaga gcggtggcg cagtcattggc ggactactgg 180  
aagtcacagc caaagaaatt ctgtgattac tgcaagtgc ggatagcaga caataggcct 240

00629469.072800

```

agtgttgaat ttcatgaaag aggaaagaat cataaggaaa atgtggcaaa aaggatcagt 300
gagattaaac agaaaagcct ggataaggca aaggaagaag aaaaggcatc aaaggagttt 360
gctgcaatgg aggcagctgc cctgaaagca taccaagagg atttgaaaag acttggctta 420
gagtcagaaa ttttggagcc aagcataaca ccagtaacca gcactatccc acctacctcg 480
acatcaaatc aacagaaaaga aaagaaagaa aagaagaaaa gaaaaaaaaga tccttcaaag 540
ggcagatggg tagaaggcat aacctctgag ggttaccatt actattatga tcttatctca 600
ggagcatctc agtgggagaa acctgaagga tttcaaggag acttaaaaaa gacagcagtg 660
aagaccgttt gggtagaagg ttttaagtga gatggtttta cctattacta taatacagaa 720
acaggagaat ccagatggga gaaacctgat gatttcattc cacacactag tgatctgcct 780
tctagtaagg tcaatgaaaa ttcaattggc accctagatg aatccaaatc atcagattcg 840
catagtgatt ctgatgggga acaggaagca gaagaaggag gggctctctac agagacagaa 900
aagccaaaaa taaagttaa ggaaaaaaa taaaaatagt gatggaggaa gtgaccaga 960
aacacagaaa gaaaaaagta ttcagaaaca gaattcatta ggttcaaata aagaaaaatc 1020
gaaaactctt aagaaatcaa acccatatgg agaattggcaa gaaattaaac aagaggttga 1080
gtctcatgag gaggtagatt tggaacttcc aagcactgaa aatgagtatg tatcaacttc 1140
agaagctgat ggtggcggag aacccaaagt ggtattttaa gaaaaaacag tcacttctct 1200
tgagattatg gcagatggag tggccccagt cttcaaaaag agaagaactg aaaatggaaa 1260
atctagaaat ttaaggcaac gaggtgatga tcaatagttg caggagagct ttttgtacat 1320
gcttttagga cagaatggag acttatacac ccaaagttta tctgtgtttg tttgtaagta 1380
ttatgatgct aaaaatttag atttattcta aatgtatttg atgtgaatta aaataaatat 1440
ttttcatgt gaaattt                                     1457

```

<210> 10692  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 10692

Met	Ala	Asp	Tyr	Trp	Lys	Ser	Gln	Pro	Lys	Lys	Phe	Cys	Asp	Tyr	Cys
1				5				10						15	
Lys	Cys	Trp	Ile	Ala	Asp	Asn	Arg	Pro	Ser	Val	Glu	Phe	His	Glu	Arg
			20					25						30	
Gly	Lys	Asn	His	Lys	Glu	Asn	Val	Ala	Lys	Arg	Ile	Ser	Glu	Ile	Lys
		35					40					45			
Gln	Lys	Ser	Leu	Asp	Lys	Ala	Lys	Glu	Glu	Glu	Lys	Ala	Ser	Lys	Glu
	50					55					60				
Phe	Ala	Ala	Met	Glu	Ala	Ala	Ala	Leu	Lys	Ala	Tyr	Gln	Glu	Asp	Leu
65					70				75						80
Lys	Arg	Leu	Gly	Leu	Glu	Ser	Glu	Ile	Leu	Glu	Pro	Ser	Ile	Thr	Pro
			85					90						95	
Val	Thr	Ser	Thr	Ile	Pro	Pro	Thr	Ser	Thr	Ser	Asn	Gln	Gln	Lys	Glu
			100					105					110		
Lys	Lys	Glu	Lys	Lys	Lys	Arg	Lys	Lys	Asp	Pro	Ser	Lys	Gly	Arg	Trp
		115					120					125			
Val	Glu	Gly	Ile	Thr	Ser	Glu	Gly	Tyr	His	Tyr	Tyr	Tyr	Asp	Leu	Ile
	130					135					140				
Ser	Gly	Ala	Ser	Gln	Trp	Glu	Lys	Pro	Glu	Gly	Phe	Gln	Gly	Asp	Leu

145		150		155		160									
Lys	Lys	Thr	Ala	Val	Lys	Thr	Val	Trp	Val	Glu	Gly	Leu	Ser	Glu	Asp
		165		170		175									
Gly	Phe	Thr	Tyr	Tyr	Tyr	Asn	Thr	Glu	Thr	Gly	Glu	Ser	Arg	Trp	Glu
		180		185		190									
Lys	Pro	Asp	Asp	Phe	Ile	Pro	His	Thr	Ser	Asp	Leu	Pro	Ser	Ser	Lys
		195		200		205									
Val	Asn	Glu	Asn	Ser	Leu	Gly	Thr	Leu	Asp	Glu	Ser	Lys	Ser	Ser	Asp
	210			215		220									
Ser	His	Ser	Asp	Ser	Asp	Gly	Glu	Gln	Glu	Ala	Glu	Glu	Gly	Gly	Val
225				230		235									240
Ser	Thr	Glu	Thr	Glu	Lys	Pro	Lys	Ile	Lys	Phe	Lys	Glu	Lys	Lys	
		245		250		255									

<210> 10693  
 <211> 1707  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (97).. (1425)

<400> 10693

gtgccgtccg	ccggtccgtc	tgcccgcagg	cattgcccac	gccagccgag	ccgccagagc	60
cgcggggcgc	gggggtgtcg	cgggcccac	cccaggatgc	tcccctgcgc	ctcctgccta	120
cccggtctc	tactgtctcg	ggcgctgcta	ctgttgctct	tgggatcagc	ttctcctcag	180
gattctgaag	agcccagac	ctacacggaa	tgcacagatg	gctatgagtg	ggaccagac	240
agccagcact	gccgggatgt	caacgagtgt	ctgaccatcc	ctgaggcctg	caagggggaa	300
atgaagtgca	tcaaccacta	cgggggctac	ttgtgcctgc	ccgctccgc	tgccgtcatc	360
aacgacctac	acggcgaggg	actcccgcga	ccagtgcctc	ccgctcaaca	ccccaacccc	420
tgcccaccag	gctatgagcc	cgacgatcag	gacagctgtg	tggatgtgga	cgagtgtgcc	480
caggccctgc	acgactgtcg	ccccagccag	gactgccata	acttgccctg	ctcctatcag	540
tgcacctgcc	ctgatgggta	ccgcaagatc	gggcccagag	gtgtggacat	agacgagtgc	600
cgctaccgct	actgccagca	ccgctgcgtg	aacctgcctg	gctccttccg	ctgccagtgc	660
gagccgggct	tccagctggg	gcctaacaac	cgctcctgtg	ttgatgtgaa	cgagtgtgac	720
atggggggccc	catgcgagca	gcgctgcttc	aactcctatg	ggaccttcct	gtgtcgctgc	780
caccagggct	atgagctgca	tcgggatggc	ttctcctgca	gtgatattga	tgagtgtagc	840
tactccagct	acctctgtca	gtaccgctgc	gtcaacgagc	caggccgttt	ctcctgccac	900
tgcccacagg	gttaccagct	gctggccaca	cgcctctgcc	aagacattga	tgagtgtgag	960
tctggtgctc	accagtgtct	cgaggcccaa	acctgtgtca	acttccatgg	gggctaccgc	1020
tgctgtggaca	ccaaccgctg	cgtggagccc	tacatccagg	tctctgagaa	ccgctgtctc	1080
tgcccggcct	ccaaccctct	atgtcgagag	cagccttcat	ccattgtgca	ccgctacatg	1140
accatcacct	cggagcggag	cgtgcccgct	gacgtgttcc	agatccaggc	gacctccgtc	1200
taccccggtg	cctacaatgc	ctttcagatc	cgtgctggaa	actcgcaggg	ggacttttac	1260
attaggcaaaa	tcaacaacgt	cagcgccatg	ctggctcctg	cccgcccggt	gacgggcccc	1320
cgggagtagc	tgctggacct	ggagatggtc	accatgaatt	ccctcatgag	ctaccgggcc	1380

009270 69462960

agctctgtac tgaggctcac cgtctttgta ggggcctaca cttcttgagg agcaggaggg 1440  
agccaccctc cctgcagcta ccctagctga ggagctctgc accacgagct tcagtcaccc 1500  
cgagaggaga ggaggtaacg aggagggcgg actccaggcc ccggcccaga gatttggact 1560  
tggctggctt gcaggggtcc taagaaactc cactctggac agcgccagga ggccctgggt 1620  
tccattccta actctgcctc aaactgtaca tttggataag ccctagtagt tccctggggc 1680  
tgtttttcta taaaacgagg caactgg 1707

<210> 10694

<211> 443

<212> PRT

<213> Homo sapiens

<400> 10694

Met	Leu	Pro	Cys	Ala	Ser	Cys	Leu	Pro	Gly	Ser	Leu	Leu	Leu	Trp	Ala	1	5	10	15
Leu	Leu	Leu	Leu	Leu	Leu	Gly	Ser	Ala	Ser	Pro	Gln	Asp	Ser	Glu	Glu	20	25	30	
Pro	Asp	Ser	Tyr	Thr	Glu	Cys	Thr	Asp	Gly	Tyr	Glu	Trp	Asp	Pro	Asp	35	40	45	
Ser	Gln	His	Cys	Arg	Asp	Val	Asn	Glu	Cys	Leu	Thr	Ile	Pro	Glu	Ala	50	55	60	
Cys	Lys	Gly	Glu	Met	Lys	Cys	Ile	Asn	His	Tyr	Gly	Gly	Tyr	Leu	Cys	65	70	75	80
Leu	Pro	Arg	Ser	Ala	Ala	Val	Ile	Asn	Asp	Leu	His	Gly	Glu	Gly	Leu	85	90	95	
Pro	Pro	Pro	Val	Pro	Pro	Ala	Gln	His	Pro	Asn	Pro	Cys	Pro	Pro	Gly	100	105	110	
Tyr	Glu	Pro	Asp	Asp	Gln	Asp	Ser	Cys	Val	Asp	Val	Asp	Glu	Cys	Ala	115	120	125	
Gln	Ala	Leu	His	Asp	Cys	Arg	Pro	Ser	Gln	Asp	Cys	His	Asn	Leu	Pro	130	135	140	
Gly	Ser	Tyr	Gln	Cys	Thr	Cys	Pro	Asp	Gly	Tyr	Arg	Lys	Ile	Gly	Pro	145	150	155	160
Glu	Cys	Val	Asp	Ile	Asp	Glu	Cys	Arg	Tyr	Arg	Tyr	Cys	Gln	His	Arg	165	170	175	
Cys	Val	Asn	Leu	Pro	Gly	Ser	Phe	Arg	Cys	Gln	Cys	Glu	Pro	Gly	Phe	180	185	190	
Gln	Leu	Gly	Pro	Asn	Asn	Arg	Ser	Cys	Val	Asp	Val	Asn	Glu	Cys	Asp	195	200	205	
Met	Gly	Ala	Pro	Cys	Glu	Gln	Arg	Cys	Phe	Asn	Ser	Tyr	Gly	Thr	Phe	210	215	220	
Leu	Cys	Arg	Cys	His	Gln	Gly	Tyr	Glu	Leu	His	Arg	Asp	Gly	Phe	Ser	225	230	235	240
Cys	Ser	Asp	Ile	Asp	Glu	Cys	Ser	Tyr	Ser	Ser	Tyr	Leu	Cys	Gln	Tyr	245	250	255	
Arg	Cys	Val	Asn	Glu	Pro	Gly	Arg	Phe	Ser	Cys	His	Cys	Pro	Gln	Gly	260	265	270	

002270 169462960



Tyr Gln Leu Leu Ala Thr Arg Leu Cys Gln Asp Ile Asp Glu Cys Glu  
 275 280 285  
 Ser Gly Ala His Gln Cys Ser Glu Ala Gln Thr Cys Val Asn Phe His  
 290 295 300  
 Gly Gly Tyr Arg Cys Val Asp Thr Asn Arg Cys Val Glu Pro Tyr Ile  
 305 310 315 320  
 Gln Val Ser Glu Asn Arg Cys Leu Cys Pro Ala Ser Asn Pro Leu Cys  
 325 330 335  
 Arg Glu Gln Pro Ser Ser Ile Val His Arg Tyr Met Thr Ile Thr Ser  
 340 345 350  
 Glu Arg Ser Val Pro Ala Asp Val Phe Gln Ile Gln Ala Thr Ser Val  
 355 360 365  
 Tyr Pro Gly Ala Tyr Asn Ala Phe Gln Ile Arg Ala Gly Asn Ser Gln  
 370 375 380  
 Gly Asp Phe Tyr Ile Arg Gln Ile Asn Asn Val Ser Ala Met Leu Val  
 385 390 395 400  
 Leu Ala Arg Pro Val Thr Gly Pro Arg Glu Tyr Val Leu Asp Leu Glu  
 405 410 415  
 Met Val Thr Met Asn Ser Leu Met Ser Tyr Arg Ala Ser Ser Val Leu  
 420 425 430  
 Arg Leu Thr Val Phe Val Gly Ala Tyr Thr Phe  
 435 440

<210> 10695  
 <211> 1669  
 <212> DNA  
 <213> Homo sapiens

<400> 10695  
 ttgaacctat gatgaatgaa agaaatgaag ttctctatat aggtgggttat gtcataagtg 60  
 ttatatcata agtgggtgta tagtatcatt attacctact atcaggaata atttcttttc 120  
 actctctcat tattcttgtc actgttgaat gtctcaagag ttgtgtgtgt attcagtttc 180  
 tatttccctc tctgtctcat ttactgactc cagtctgact aatgctctaa tatgctcttg 240  
 agaagtcacc atgaactcca tgttgctgag ccagtgaggac actttctgtc ctctactta 300  
 acctctctgc acagatagat tccgtacaga gagaaagttg atcacttcct ctctctcag 360  
 cttctctgac accaattctg ttttttctt ctaccccttt ggctaattctt gatttttaag 420  
 acactttgtg ggctaacaaa acattctgtg gaatgagttc aacatatatt acaatttccc 480  
 ctttttaaaa atcatgttat tctgtttcat ttacagctct tcacattctg tattgatttt 540  
 taaaaatatt ttaaaattgt ttctctttcc tccactttga aagctttatg aaagaataat 600  
 ttctgtctat tgcctaatac tgtgtatcat cactgtgctt gacacgtagt tggtaatctc 660  
 taagtatttg agaagcagtg agttaattaa tatttgcttt tttgactttt ttaggttatt 720  
 taagtatttt tgacatctct ttttggaat ggggtaaaag aattgtagag gaactattaa 780  
 atgaccagtg taaaccattg tttgtaaat gttgtgtaat atgacttttg aataatgcag 840  
 ttaatgggta tcagtttaag taatcactat tcagttttga taagaaatgt gotttagtct 900  
 ttttctaaat cattctagga gatttgcca tggatttata catagcaact atacacatat 960  
 attttagatg accagaaaaa tttagtgtt cttcacagct gtcagctgga ataattgcgt 1020  
 actcatacaa caggagttag gttagaactg ctattattta gtatcctttt gctattacct 1080

09629469.072800

gatgtagtaa gtttaacatc ttigtataaaa tatgttttaa gttctggggcc attgattttg 1140  
aagtgggaaa taaatgaatg ctgttggttt ttcatgtcaa gattaccaaa aagctctatg 1200  
gaaagttatt ttatagcaaa cacaagggaag aggtattttc cagaatgagt tttttacaaa 1260  
tggatagtga tgttttctgt aatacttaag tttagaaaca tatatcacat gacaagtcca 1320  
ttgtttattc aaaaaacaaa taggcatttg actcatttgg gactgtaaaa tcttcaaaaa 1380  
tatgccagaa aactaaaaaa tgtagaaaag aggatttttt ttgttttgtt tttagccccc 1440  
agaccaccac tttttatagt aacttatttt ctagtgtctc aaaaaataag ggcttttaag 1500  
gaaagagagt atttctctta aagttaattt tgatagatat ttatctagat gctttctttt 1560  
ttcccttgcc ataatagctg gcttgttagag agagttaagt ttgaaaaggc ttgccttttt 1620  
tccgtcgtc tgagcaggat tatgttaggg cccaaatagt gactttgac 1669

<210> 10696

<211> 1773

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (44).. (517)

<400> 10696

cacattccag aaaaaaatac cgctttcaca aaactcgctc cgcattgacc acagaacacc 60  
caagggtcaaa aagagtccaa agttcagaaa gaaaagttat ctgagtagac tgatgctcgc 120  
aaacaggcct ccgttctctg cagcgaagag cctcataaat tccccttcac aaggggcttt 180  
ttcatcctta ggagacctga gtcctcaaga aaaccctttt ctggaagtat ctgctccttc 240  
agaacatttt atagaaacca ctaatatata agacacaact gcaagaaatg ccttggaaga 300  
aaatgttttt atggaaaaca ctaacatgcc agaagtcacc atctctgaaa acacaaaacta 360  
caatcatcct cctgaggcag attccgctgg gactgcattc aacttagggc caactgttaa 420  
acaaactgag acaaaatggg aatacaacaa cgtgggcact gacctgtccc ccgagcccaa 480  
aagcttcaat taccatttgc tcagtttgaa attcagctaa cccagcagct acagtccctt 540  
atccccaaca acaatgtgag aaggctcatt tctcatgtta tccggacctt gaagatggac 600  
tgctctgggg cccatgtgca agtgacctgt gccaaagctc tctccaggac aggccacctg 660  
atgaagcttc tcagtgggca gcaggaagta aaggcatctg agatagaatg ggatacggac 720  
caatggaaga ctgagaacta cattaatgag agcacggaag cccagagtga acagaaagag 780  
aagtcgcttg agctcacaaa agaagttcca ggatacggct atactgacaa actcatcttg 840  
gcattaattg tgactgaaat actaatgatt ttgattatac ttttctgcct cattgtggtt 900  
taggattggg tgtgtgtgtc tcctctctga atggcactca aatgtttgct gactcctact 960  
ctgcgtgact ggggtgtaca gctatggact gatgcattcc atcccatcat ctttcacgag 1020  
caaagcagtc tcttttttga cagctgaaga agaacctgta gggaatccag aaggagcatt 1080  
catgaagggt ttacaagccc ggaagaatta cacaagcact gagctgactg ttgagccgga 1140  
ggagccctca gacagcagtg gcatcaactt gtcaggcttt gggagtggag agctagacac 1200  
caatgacgag agtgatgtta tcagtgcact aagttacatt tgccatattt ctcagcagta 1260  
aacctagatg tggaatcaat gttactaccg ttcattaaac tgccaaccac aggaaacagc 1320  
ctggcaaaga ttcaaaactgt aggccaaaaa cggcaaaaag tgaatagagt cctcatgggc 1380  
ccaatgagca tccagaaaag gcacttcaaa gaggtgggaa ggcagagcat caggagggaa 1440  
cagggtgccc aggcattctgt ggagaacgct gccgaagaaa aaaggctcgg gaggccagcc 1500  
ccaaggggagc tggaacagcc tcacacacag caggggcctg agaagtttagc gggaaacgcc 1560

-4180/13211-

atctacacca agccttcgtt cagccaagag cataaggcag cagtctctgt gctgacaccc 1620  
ttctccaagg gcgcgccttc tacctccagc cctgcaaaag ccctaccaca ggtgagagac 1680  
agattgaaag acaacacaca ctatttccat tttagaaagt gcaaaggcta gagttacaaa 1740  
tatgaaggct tctaaaccaa tttcacattc cag 1773

<210> 10697

<211> 158

<212> PRT

<213> Homo sapiens

<400> 10697

Met Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe Arg Lys  
1 5 10 15  
Lys Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro Phe Ser  
20 25 30  
Ala Ala Lys Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe Ser Ser  
35 40 45  
Leu Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Glu Val Ser Ala  
50 55 60  
Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr Thr Ala  
65 70 75 80  
Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn Met Pro  
85 90 95  
Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro Glu Ala  
100 105 110  
Asp Ser Ala Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys Gln Thr  
115 120 125  
Glu Thr Lys Trp Glu Tyr Asn Asn Val Gly Thr Asp Leu Ser Pro Glu  
130 135 140  
Pro Lys Ser Phe Asn Tyr Pro Leu Leu Ser Leu Lys Phe Ser  
145 150 155

<210> 10698

<211> 1697

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (321).. (1370)

<400> 10698

aaagcgccat tacgcagaga gaaagttacg aggttcgtgg ccgcggtttc cccaggcagc 60  
tggcgctgga ggcttcggcg tcacgtgctg gtctggattt ttctcgatgc actggggaaa 120  
gcggtggact cttatcgtgg gagggctctt gatctgtgat ttatagatag gcacagctac 180  
tcccgttcgg gaacccaacg gcagacaggt cctagtgcc atcagatacc cgcggccggg 240

0092240.69462960

```

actcggagct gtggggtgtg gggaggcgga ggcaccaact aagagcgacc tagcatcgca 300
aagccgccct cggggcgctc atggcgggac gcctcctggg aaaggcttta gccgcggtgt 360
ctctctctct ggcccttgcc tctgtgacta tcaggtcctc gcgctgccgc ggcatccagg 420
cgttcagaaa ctcgttttca tcttcttggt ttcattttaa taccaacgct atgtctggtt 480
ctaattggtc caaagaaaat tctcacaata aggctcggac gtctccttac ccaggttcaa 540
aagttgaacg aagccaggtt cctaattgaga aagtgggctg gcttggtgag tggcaagact 600
ataagcctgt ggaatacact gcagtctctg tcttggtgg acccaggtgg gcagatcctc 660
agatcagtga aagtaatttt tctcccaagt ttaacgaaaa ggatgggcat gttgagagaa 720
agagcaagaa tggcctgtat gagattgaaa atggaagacc gagaaatcct gcaggacgga 780
ctggactggt gggccggggg cttttggggc gatggggccc aaatcacgct gcagatcca 840
ttataaccag atggaaaagg gatagcagtg gaaataaaat catgcacctt gtttctggga 900
agcatatctt acaatttggt gcaataaaaa ggaaagactg tggagaatgg gcaatcccag 960
gggggatggt ggatccagga gagaagatta gtgccacact gaaaagagaa tttggtgagg 1020
aagctctcaa ctcccttacag aaaaccagtg ctgagaagag agaaatagag gaaaagttgc 1080
acaaactctt cagccaagac cacctagtga tatataaggg atatgttgat gatcctcgaa 1140
acactgataa tgcattgatg gagacagaag ctgtgaacta ccatgacgaa acaggtgaga 1200
taatggataa tcttatgcta gaagctggag atgatgctgg aaaagtgaat tgggtggaca 1260
tcaatgataa actgaagctt tatgccagtc actctcaatt catcaaactt gtggctgaga 1320
aacgagatgc aactggagc gaggactctg aagctgactg ccatgcgttg tagctgatgg 1380
tctccgtgta agccaaaggc ccacagagga gcatatactg aaaagaaggc agtatcacag 1440
aatttatact ataaaaaggg cagggttaggc cacttggcct atttactttc aaaacaattt 1500
gcatttagag tgtttcgcat cagaataaca tgagtaagat gaactggaac acaaaatttt 1560
cagctctttg gtcaaaagga atataagtaa tcatattttg tatgtattcg atttaagcat 1620
ggcttaaatt aaatttaaac aactaatgct ctttgaagaa tcataatcag aataaagata 1680
aattottgat cagctat                                     1697

```

<210> 10699  
 <211> 350  
 <212> PRT  
 <213> Homo sapiens

<400> 10699

Met	Ala	Gly	Arg	Leu	Leu	Gly	Lys	Ala	Leu	Ala	Ala	Val	Ser	Leu	Ser
1				5					10					15	
Leu	Ala	Leu	Ala	Ser	Val	Thr	Ile	Arg	Ser	Ser	Arg	Cys	Arg	Gly	Ile
			20					25					30		
Gln	Ala	Phe	Arg	Asn	Ser	Phe	Ser	Ser	Ser	Trp	Phe	His	Leu	Asn	Thr
		35				40						45			
Asn	Val	Met	Ser	Gly	Ser	Asn	Gly	Ser	Lys	Glu	Asn	Ser	His	Asn	Lys
	50					55					60				
Ala	Arg	Thr	Ser	Pro	Tyr	Pro	Gly	Ser	Lys	Val	Glu	Arg	Ser	Gln	Val
65					70					75				80	
Pro	Asn	Glu	Lys	Val	Gly	Trp	Leu	Val	Glu	Trp	Gln	Asp	Tyr	Lys	Pro
			85					90						95	
Val	Glu	Tyr	Thr	Ala	Val	Ser	Val	Leu	Ala	Gly	Pro	Arg	Trp	Ala	Asp
			100					105					110		
Pro	Gln	Ile	Ser	Glu	Ser	Asn	Phe	Ser	Pro	Lys	Phe	Asn	Glu	Lys	Asp

-4182/13211-

115	120	125
Gly His Val Glu Arg Lys Ser Lys Asn Gly Leu Tyr Glu Ile Glu Asn		
130	135	140
Gly Arg Pro Arg Asn Pro Ala Gly Arg Thr Gly Leu Val Gly Arg Gly		
145	150	155
Leu Leu Gly Arg Trp Gly Pro Asn His Ala Ala Asp Pro Ile Ile Thr		
165	170	175
Arg Trp Lys Arg Asp Ser Ser Gly Asn Lys Ile Met His Pro Val Ser		
180	185	190
Gly Lys His Ile Leu Gln Phe Val Ala Ile Lys Arg Lys Asp Cys Gly		
195	200	205
Glu Trp Ala Ile Pro Gly Gly Met Val Asp Pro Gly Glu Lys Ile Ser		
210	215	220
Ala Thr Leu Lys Arg Glu Phe Gly Glu Glu Ala Leu Asn Ser Leu Gln		
225	230	235
Lys Thr Ser Ala Glu Lys Arg Glu Ile Glu Glu Lys Leu His Lys Leu		
245	250	255
Phe Ser Gln Asp His Leu Val Ile Tyr Lys Gly Tyr Val Asp Asp Pro		
260	265	270
Arg Asn Thr Asp Asn Ala Cys Met Glu Thr Glu Ala Val Asn Tyr His		
275	280	285
Asp Glu Thr Gly Glu Ile Met Asp Asn Leu Met Leu Glu Ala Gly Asp		
290	295	300
Asp Ala Gly Lys Val Lys Trp Val Asp Ile Asn Asp Lys Leu Lys Leu		
305	310	315
Tyr Ala Ser His Ser Gln Phe Ile Lys Leu Val Ala Glu Lys Arg Asp		
325	330	335
Ala His Trp Ser Glu Asp Ser Glu Ala Asp Cys His Ala Leu		
340	345	350

<210> 10700  
 <211> 1990  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (21).. (1526)

<400> 10700  
 ttctatcact taaaagaacc atgtctatta aagaatctag ctactggag tgcattgcc 60  
 ttccaaaaaa gaagatgaat ttaaaagata aaagccatga aggtgttgct tgtgtccaga 120  
 aagaaaaatc agtagttaaa acctggttct gtgaatgcaa tcagcgattc ccaagtgaag 180  
 atgcagtaga aaagcatgtt ttctcagcaa acacaatggg ttataaatgt gtggtctgtg 240  
 gaaaggtagt tgatgattca ggggtcattc gtttacacat gagccggatt cacggagggg 300  
 cacatttaaa taactttctt ttctggtgtc ggacatgcaa aaaggagtta acaaggaaag 360  
 atactatcat ggcacatgtg actgaatttc ataatggaca cagatatatt tatgagatgg 420

09639469.072800

```

atgaggtaga aggtgaaact ttgccatcat cctctacaac attggataat ttgactgcta 480
acaagccttc atcagctatt actgttattg atcattcccc ggcaaatagt tctccgaggg 540
gtaaatggca atgccggatt tgtgaagata tgtttgattc ccaggaatat gtaaaacagc 600
actgcatgtc tttggcaagc cacaagtttc atagatacag ctgtgctcac tgcagaaagc 660
cttttcataa gatagaaaca ttgtaccgac attgccaaaga tgagcatgac aatgagataa 720
agattaaata cttctgtggg ctttgtgata ttatctttta tgtggaagaa gcatttctga 780
gtcattatga ggagcaccac agcatagatt atgtatttgt gtcagaaaaa actgaaactt 840
caattaaaaa cgaagatgat tttccagtaa tagagaccag taaccagtta acttgtgggt 900
gccgtgagag ttacatctgt aaagtcaaca gaaaagaaga ttatagcaga tgtctccaaa 960
tcatgctgga taaaggaaaa ctgtgggttc gctgcagttt atgttcggca acagcacaga 1020
atttaaccga catgaacact catatccatc aagtgcacaa agaaaagagt gatgaggagg 1080
agcagcagta tgtaatcaag tgtggcacct gcaccaaagc atttcatgat cctgagagtg 1140
cacagcagca tttccataga aaacattgct tottacagaa acccagtgtg gctcattttg 1200
gatctgaaaa atcaaacctg tacaagttta ctgotagtgc ctacacataa gagagaaaaa 1260
tgaaacaggc aataaaactat tcaaaaagtt tagacatgga gaaaggagtt gagaatgacc 1320
taagctatca gaatatagag gaagaaattg ttgagcttcc agatttggat tacctgcgaa 1380
ccatgactca tatagtcttt gtagattttg ataactggtc aaactttttt ggtcatctac 1440
cagggcatct aaaccaagga acatttattt ggggctttca aggtacggtt aataagaaaa 1500
acaaaagaaa actttttccc acctcttaga atatagtcag tttaaaaggc tcctcttaaa 1560
ccttcttgga tagaacatag gaacataatt ggaatattgt tottttgtat tatagttact 1620
ctgctagaat cgttttcttt acatgcctct gtggtaaatt ttagctctat ctggtgactc 1680
aaagtttatg gatcttttgg cggggcgagg tggctcacgt ctgtaatccc agaactttgg 1740
aaggctgagg cggacggatc acgaggtcag aagatcgaga ccattcctggc taacatggtg 1800
aaaccccgtc tctactaaaa agaaaaaaa aatacaaaaa attagctggg cgtggtggcg 1860
ggccctgta gtcccagctc cttgggagggc tgaggcagga gaatggtgtg aaccaggag 1920
gcgaagcttg cagtgagctg agatcgacc actgctctcc agcctgggca acagagttag 1980
actctgtctt                                     1990

```

<210> 10701  
 <211> 502  
 <212> PRT  
 <213> Homo sapiens

<400> 10701  
 Met Ser Ile Lys Glu Ser Ser Ser Leu Glu Cys Ile Ala Ile Pro Lys  
 1 5 10 15  
 Lys Lys Met Asn Leu Lys Asp Lys Ser His Glu Gly Val Ala Cys Val  
 20 25 30  
 Gln Lys Glu Lys Ser Val Val Lys Thr Trp Phe Cys Glu Cys Asn Gln  
 35 40 45  
 Arg Phe Pro Ser Glu Asp Ala Val Glu Lys His Val Phe Ser Ala Asn  
 50 55 60  
 Thr Met Gly Tyr Lys Cys Val Val Cys Gly Lys Val Cys Asp Asp Ser  
 65 70 75 80  
 Gly Val Ile Arg Leu His Met Ser Arg Ile His Gly Gly Ala His Leu  
 85 90 95  
 Asn Asn Phe Leu Phe Trp Cys Arg Thr Cys Lys Lys Glu Leu Thr Arg

009629469.072800

Lys	Asp	Thr	100	Ile	Met	Ala	His	Val	105	Thr	Glu	Phe	His	Asn	110	Gly	His	Arg
			115						120						125			
Tyr	Phe	Tyr	Glu	Met	Asp	Glu	Val	Glu	Gly	Glu	Thr	Leu	Pro	Ser	Ser			
			130						135						140			
Ser	Thr	Thr	Leu	Asp	Asn	Leu	Thr	Ala	Asn	Lys	Pro	Ser	Ser	Ala	Ile			
145					150					155					160			
Thr	Val	Ile	Asp	His	Ser	Pro	Ala	Asn	Ser	Ser	Pro	Arg	Gly	Lys	Trp			
				165						170					175			
Gln	Cys	Arg	Ile	Cys	Glu	Asp	Met	Phe	Asp	Ser	Gln	Glu	Tyr	Val	Lys			
			180						185					190				
Gln	His	Cys	Met	Ser	Leu	Ala	Ser	His	Lys	Phe	His	Arg	Tyr	Ser	Cys			
			195						200					205				
Ala	His	Cys	Arg	Lys	Pro	Phe	His	Lys	Ile	Glu	Thr	Leu	Tyr	Arg	His			
			210						215					220				
Cys	Gln	Asp	Glu	His	Asp	Asn	Glu	Ile	Lys	Ile	Lys	Tyr	Phe	Cys	Gly			
225					230					235					240			
Leu	Cys	Asp	Leu	Ile	Phe	Asn	Val	Glu	Glu	Ala	Phe	Leu	Ser	His	Tyr			
				245						250					255			
Glu	Glu	His	His	Ser	Ile	Asp	Tyr	Val	Phe	Val	Ser	Glu	Lys	Thr	Glu			
			260							265					270			
Thr	Ser	Ile	Lys	Thr	Glu	Asp	Asp	Phe	Pro	Val	Ile	Glu	Thr	Ser	Asn			
			275						280						285			
Gln	Leu	Thr	Cys	Gly	Cys	Arg	Glu	Ser	Tyr	Ile	Cys	Lys	Val	Asn	Arg			
			290			295						300						
Lys	Glu	Asp	Tyr	Ser	Arg	Cys	Leu	Gln	Ile	Met	Leu	Asp	Lys	Gly	Lys			
305					310					315					320			
Leu	Trp	Phe	Arg	Cys	Ser	Leu	Cys	Ser	Ala	Thr	Ala	Gln	Asn	Leu	Thr			
				325					330						335			
Asp	Met	Asn	Thr	His	Ile	His	Gln	Val	His	Lys	Glu	Lys	Ser	Asp	Glu			
			340						345						350			
Glu	Glu	Gln	Gln	Tyr	Val	Ile	Lys	Cys	Gly	Thr	Cys	Thr	Lys	Ala	Phe			
			355						360					365				
His	Asp	Pro	Glu	Ser	Ala	Gln	Gln	His	Phe	His	Arg	Lys	His	Cys	Phe			
			370			375					380							
Leu	Gln	Lys	Pro	Ser	Val	Ala	His	Phe	Gly	Ser	Glu	Lys	Ser	Asn	Leu			
385					390					395					400			
Tyr	Lys	Phe	Thr	Ala	Ser	Ala	Ser	His	Thr	Glu	Arg	Lys	Leu	Lys	Gln			
				405					410						415			
Ala	Ile	Asn	Tyr	Ser	Lys	Ser	Leu	Asp	Met	Glu	Lys	Gly	Val	Glu	Asn			
			420						425					430				
Asp	Leu	Ser	Tyr	Gln	Asn	Ile	Glu	Glu	Glu	Ile	Val	Glu	Leu	Pro	Asp			
			435				440							445				
Leu	Asp	Tyr	Leu	Arg	Thr	Met	Thr	His	Ile	Val	Phe	Val	Asp	Phe	Asp			
			450			455					460							
Asn	Trp	Ser	Asn	Phe	Phe	Gly	His	Leu	Pro	Gly	His	Leu	Asn	Gln	Gly			
465				470						475					480			
Thr	Phe	Ile	Trp	Gly	Phe	Gln	Gly	Thr	Val	Asn	Lys	Lys	Asn	Lys	Arg			

008220" 69462960

Lys Leu Phe Pro Thr Ser  
500

490

495

<210> 10702  
<211> 1726  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (884).. (1372)

<400> 10702  
gttcacttaa aattcataga gagacatgta gaaatacata ctagataatg aaaggatcca 60  
aacagtgaag aagcagtcgc tttatatattt tgaatttttt ttcaagagta aagtgtgtta 120  
tgatagtcac cttgatttgt ttgaaatgat gtttacaaat gctattaaaa ttataaatcc 180  
tacattttac ttgtgaattt tttgggtctac ctttctagtt gtaaaatata aaaatcctaa 240  
aagatcatat tgattaactt cttgggtggaa tcacttatct tgttttgatg ataggagcag 300  
tatagcatca agttctagag gaattgggag ccattgcaaa totgagggtc aggaggaatc 360  
tttcgtccca cagagctcag tgcaaccacc agaaggagac agtgaacaaa aagctcctga 420  
agaatcatca gaggatgtga caaaatatca ggaaggagta totgcagaaa acccagttga 480  
gaaccatata aatataacac aatcagataa gttcacagcc aagccattgg attccaactc 540  
aggagaaaga aatgacctca atcttgatcg ctcttggtggg gttccagaag aatctgcttc 600  
atctgaaaaa gccaaaggaac cagaaacttc agatcagact agcactgaga gtgctaccaa 660  
tgaaaataac accaatcctg agcctcagtt ccaaacagaa gccactgggc cttcagctca 720  
tgaagaaaca tccaccaggg actctgctct tcaggacaca gatgacagtg atgatgacct 780  
agtcctgatc ccagggtgcaa ggtatcgagc aggacctggt gatagacgct ctgctgttgc 840  
ccgtattcag gagttcttca gacggagaaa agaaaggaaa gaaatggaag aattggatac 900  
tttgaacatt agaaggccgc tagtaaaaat ggttttataaa ggccatcgca actccaggac 960  
aatgataaaa gaagccaatt tctgggggtgc taactttgta atgagtgggt ctgactgttg 1020  
ccacattttc atctgggatc ggcacactgc tgagcatttg atgcttctgg aagctgataa 1080  
tcattgtgta aactgcctgc agccacatcc gtttgaccca acctcatctg gcatagatta 1140  
tgacataaag atctgggtcac cattagaaga gtcaaggatt tttaaccgaa aacttgctga 1200  
tgaagttata actcgaaacg aactcatgct ggaagaaaact agaaacacca ttacagttcc 1260  
agcctctttc atgttgagga tgttggtctc acttaatcat atccgagctg accggttgga 1320  
gggtgacaga tcagaaggct ccggtcaaga gaatgaaaat gaggatgagg aataataaac 1380  
tctttttggc aagcacttaa atgttctgaa atttgtataa gacatttatt atattttttt 1440  
ctttacagag ctttagtgca attttaaggt tatggttttt ggagtttttc cttttttttg 1500  
ggataacctc acattggttt ggaatgattg tgtgcatgaa tttgggagat tgtataaaac 1560  
aaaactagca gaatgttttt aaaacttttt gccgtgtatg aggagtgota gaaaatgcaa 1620  
agtgcaatat tttccctaac cttcaaatgt gggagcttgg atcaatgttg aagaataatt 1680  
ttcatcatag tgaaaatgtt ggttcaaata aatttctaca cttgcc 1726

<210> 10703  
<211> 163

000220' 69462960



<212> PRT

<213> Homo sapiens

<400> 10703

Met Glu Glu Leu Asp Thr Leu Asn Ile Arg Arg Pro Leu Val Lys Met  
1 5 10 15  
Val Tyr Lys Gly His Arg Asn Ser Arg Thr Met Ile Lys Glu Ala Asn  
20 25 30  
Phe Trp Gly Ala Asn Phe Val Met Ser Gly Ser Asp Cys Gly His Ile  
35 40 45  
Phe Ile Trp Asp Arg His Thr Ala Glu His Leu Met Leu Leu Glu Ala  
50 55 60  
Asp Asn His Val Val Asn Cys Leu Gln Pro His Pro Phe Asp Pro Thr  
65 70 75 80  
Ser Ser Gly Ile Asp Tyr Asp Ile Lys Ile Trp Ser Pro Leu Glu Glu  
85 90 95  
Ser Arg Ile Phe Asn Arg Lys Leu Ala Asp Glu Val Ile Thr Arg Asn  
100 105 110  
Glu Leu Met Leu Glu Glu Thr Arg Asn Thr Ile Thr Val Pro Ala Ser  
115 120 125  
Phe Met Leu Arg Met Leu Ala Ser Leu Asn His Ile Arg Ala Asp Arg  
130 135 140  
Leu Glu Gly Asp Arg Ser Glu Gly Ser Gly Gln Glu Asn Glu Asn Glu  
145 150 155 160  
Asp Glu Glu

<210> 10704

<211> 1869

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (129)..(1682)

<400> 10704

tttttcggac ggctgcagca tcgcggtggg gatcgaaagc gggggcttct gggacgcagc 60  
tctggagacg cggcctcgga ccagccattt cgggtgtagaa gtggcagcac ggcagactgg 120  
tcaaacaaat ggattttaca gaggcttacg cggacacgtg ctotacagtt ggacttgctg 180  
ccagggaagg caatgttaaa gtcttaagga aactgctcaa aaagggccga agtgtcgatg 240  
ttgctgataa caggggatgg atgccaattc atgaagcagc ttatcacaac tctgtagaat 300  
gtttgcaaat gttaattaat gcagattcat ctgaaaacta cattaagatg aagacctttg 360  
aaggttttctg tgctttgcat ctcgctgcaa gtcaaggaca ttggaaaatc gtacagattc 420  
ttttagaagc tggggcagat cctaattgcaa ctactttaga agaaacgaca ccattgtttt 480  
tagctgttga aaatggacag atagatgtgt taaggctgtt gottcaacac ggagcaaattg 540  
ttaatggatc ccattctatg tgtggatgga actccttgca ccaggcttct tttcaggaaa 600

091629169.072800

```

atgctgagat cataaaattg cttcttagaa aaggagcaaa caaggaatgc caggatgact 660
ttggaatcac acctttatit gtggctgctc agtatggcaa gctagaaagc ttgagcatac 720
ttatttcacg ggggtgcaaat gtcaattgtc aagccttgga caaagctaca cccttgttca 780
ttgctgctca agaggggacac acaaaaatgtg tggagctttt gctctccagt ggggcagatc 840
ctgatcttta ctgtaatgag gacagttggc agttacctat tcatgcagct gcacaaatgg 900
gccatacaaa aatcttggac ttgttaatac cacttactaa ccgggcctgt gacactgggc 960
taaacaaagt aagccctgtt tactcagcag tgtttggggg acatgaagat tgcctagaaa 1020
tattactccg gaatggctac agcccagacg cccaggcgtg ccttgttttt ggattcagtt 1080
ctcctgtgtg catggctttc caaaaggact gtgagttctt tggaattgtg aacattcttt 1140
tgaaatatgg agcccagata aatgaacttc atttggcata ctgcctgaag tacgagaagt 1200
tttcgatatt tcgctacttt ttgaggaaag gttgctcatt gggaccatgg aaccatatat 1260
atgaatttgt aaatcatgca attaaagcac aagcaaaata taaggagtgg ttgccacatc 1320
ttctggttgc tggatttgac ccactgattc tactgtgcaa ttcttggatt gactcagtca 1380
gcattgacac ccttatcttc actttggagt ttactaattg gaagacactt gcaccagctg 1440
ttgaaaggat gctctctgct cgtgcctcaa acgcttggat tctacagcaa catattgcca 1500
ctgttccatc cctgacccat ctttgtcgtt tggaaattcg gtccagtcta aaatcagaac 1560
gtctacggtc tgacagttat attagtcagc tgccacttcc cagaagccta cataattatt 1620
tgctctatga agacgttctg aggatgtatg aagttccaga actggcagct attcaagatg 1680
gataaatcag tgaaactact taacacagct aatttttttc tctgaaaaat catcgagaca 1740
aaagagccac agagtacaag tttttatgat tttatagtca aaagatgatt attgattgtg 1800
agataggtta ggttttgggg ggccagtagt tcagtgagaa tgtttatgtt tacaactagc 1860
cttcccagt

```

<210> 10705  
 <211> 518  
 <212> PRT  
 <213> Homo sapiens

<400> 10705

Met	Asp	Phe	Thr	Glu	Ala	Tyr	Ala	Asp	Thr	Cys	Ser	Thr	Val	Gly	Leu
1				5				10						15	
Ala	Ala	Arg	Glu	Gly	Asn	Val	Lys	Val	Leu	Arg	Lys	Leu	Leu	Lys	Lys
			20					25					30		
Gly	Arg	Ser	Val	Asp	Val	Ala	Asp	Asn	Arg	Gly	Trp	Met	Pro	Ile	His
		35					40					45			
Glu	Ala	Ala	Tyr	His	Asn	Ser	Val	Glu	Cys	Leu	Gln	Met	Leu	Ile	Asn
	50					55					60				
Ala	Asp	Ser	Ser	Glu	Asn	Tyr	Ile	Lys	Met	Lys	Thr	Phe	Glu	Gly	Phe
65					70					75					80
Cys	Ala	Leu	His	Leu	Ala	Ala	Ser	Gln	Gly	His	Trp	Lys	Ile	Val	Gln
				85					90					95	
Ile	Leu	Leu	Glu	Ala	Gly	Ala	Asp	Pro	Asn	Ala	Thr	Thr	Leu	Glu	Glu
		100						105					110		
Thr	Thr	Pro	Leu	Phe	Leu	Ala	Val	Glu	Asn	Gly	Gln	Ile	Asp	Val	Leu
		115					120					125			
Arg	Leu	Leu	Gln	His	Gly	Ala	Asn	Val	Asn	Gly	Ser	His	Ser	Met	
	130					135					140				

008220" 69463960



<210> 10706  
<211> 2000  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (408).. (1013)

<400> 10706

```

gatactcata tagtagagat ctagaccttg ctaagaaaaa acatgcttcc ctgaggcaga 60
cggagtctga tccagatgct gatagaacca ctttaaatca tgcagatcat tcatcaaaaa 120
tagtccagca tcgattgtta tctagacaag aagaacttaa ggaaagagca agagttctgc 180
ttgagcaagc aagaagagat gcagccttaa aggcggggaa taagcacaat accaacacag 240
ccacccatt ctgcaacagg cagctaagt atcagcaaga tctccggact gaacgattac 300
aaaaacaac agaacgtttt agaaatcctg ttgtgttcag caaagattct acagtcagaa 360
aaactcaact tcagtctttc agccaatata ttgagaatag accagagatg aaaaggcaga 420
gatcaataca ggaagataca aagaaaggaa atgaggagaa ggcagcgata actgaaactc 480
agaggaagcc atcagaagat gaagtgttta ataaagggtt caaagacacc agtcagtatg 540
tagtaggaga attggcagca ctagagaatg agcaaaagca aattgacacc cgtgccgcgc 600
tggtggagaa gcgccttcgc tatctcatgg acacaggaag gaacacagaa gaagaagaag 660
ctatgatgca ggaatggttt atgttagtta ataagaaaaa tgccttaata aggagaatga 720
atcagctctc tcttctggaa aaagaacatg atttagaacg acggtatgag ctgctgaacc 780
gggaattgag ggcaatgcta gccattgaag actggcagaa gaccgaggcc cagaagcgac 840
gcgaacagct tctgctagat gagctggttg ccctggtgaa caagcgcgat gcgctcgtca 900
gggacctgga cgcgcaggag aagcaggccg aagaagaaga tgagcatttg gagcgaactc 960
tgagagcaaaa caaaggcaag atggccaaga aagaggagaa atgtgttctt cagtagccat 1020
cagatcagaa agaattcttc ccaacatttt agagtcttgc ttcccaaacc agaaaaagtc 1080
agactcattg tcgatttaaa acttttaaca ttttgtttgg ctggattgta ctactttacc 1140
tctactttac caccaccacc cttttcctcc ctccctttcca aataatatac agaactccaa 1200
aatagcttca tttaaggatt tttttgtgag ttaacaattt ccttgaaatc ctgtgaaata 1260
gatttgcaca gacaccttgt gagtgattgg tattggaggt gttcaagaaa ctgttcgaaa 1320
aagaacaaaa acacttccct cgttattttc tctcattttt tgatgagagg aaaatttgaa 1380
acattattct tgttgttggt ggtaatagca taatgacagt gggaggggta caaggggata 1440
agaaaaatgt catgattttt ttccggtcct gccacatgta acaacttactc tgttacctaa 1500
attttatagt tagatcatat ccaatctact tattaacttg tgttctatct accagtggag 1560
tttttctgca gtggttgctt ttactgttaa ggataatgga gttcctctcc tctgctttcc 1620
tcagaggatg gtcccttaac atagccagaa acaagccctg tggtttgaag gtgagctgtg 1680
aggatgggac taattgatat gcaccagttt acaagacag tcttatcatc cgagaatata 1740
ccatcttttt ctctggataa ttatttctta catcatgctt gattcctaca ttttgttggg 1800
tctcaacatt ggctcacgaa tgctgttaat atttattctg tattgataaa aagtctgtct 1860
tgccactaca agtaaatccc ccatttaata ttttcttctt tagcatagca ctgtcatttt 1920
ttgtgaaaat ggttatgttt atttattaca atactgagtc atatataaat tttcaataaa 1980
agcagaaaact ttcttacctt

```

09529469.078800

<210> 10707  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<400> 10707  
 Met Lys Arg Gln Arg Ser Ile Gln Glu Asp Thr Lys Lys Gly Asn Glu  
 1 5 10 15  
 Glu Lys Ala Ala Ile Thr Glu Thr Gln Arg Lys Pro Ser Glu Asp Glu  
 20 25 30  
 Val Leu Asn Lys Gly Phe Lys Asp Thr Ser Gln Tyr Val Val Gly Glu  
 35 40 45  
 Leu Ala Ala Leu Glu Asn Glu Gln Lys Gln Ile Asp Thr Arg Ala Ala  
 50 55 60  
 Leu Val Glu Lys Arg Leu Arg Tyr Leu Met Asp Thr Gly Arg Asn Thr  
 65 70 75 80  
 Glu Glu Glu Glu Ala Met Met Gln Glu Trp Phe Met Leu Val Asn Lys  
 85 90 95  
 Lys Asn Ala Leu Ile Arg Arg Met Asn Gln Leu Ser Leu Leu Glu Lys  
 100 105 110  
 Glu His Asp Leu Glu Arg Arg Tyr Glu Leu Leu Asn Arg Glu Leu Arg  
 115 120 125  
 Ala Met Leu Ala Ile Glu Asp Trp Gln Lys Thr Glu Ala Gln Lys Arg  
 130 135 140  
 Arg Glu Gln Leu Leu Leu Asp Glu Leu Val Ala Leu Val Asn Lys Arg  
 145 150 155 160  
 Asp Ala Leu Val Arg Asp Leu Asp Ala Gln Glu Lys Gln Ala Glu Glu  
 165 170 175  
 Glu Asp Glu His Leu Glu Arg Thr Leu Glu Gln Asn Lys Gly Lys Met  
 180 185 190  
 Ala Lys Lys Glu Glu Lys Cys Val Leu Gln  
 195 200

<210> 10708  
 <211> 1760  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (31).. (837)

<400> 10708  
 aaaacgtttg tatctcaagc aagtgtctaca atgcaacagt atgcacagag agataagaaa 60  
 catgaatatt ggtttgctgt gccacaagaa aggacagatc acttgatatgc cttcttcatt 120  
 cagtggagtc cagaaatata tgcagaagat actggcgaat ataccagaga acctggattt 180  
 atagtagtaa aaaagattga ggagtctgaa acaattgagg attctagtaa tcaagcagca 240

008240 69462960

```

gccagagaat gggagattac tacaagggaa gacataaatt caaagcaggt tgctacagtg 300
aaagcagacc tggagtctga atcttttoga ccaaacctaa gtgatccag tgaactttta 360
ctgccagatc aaattgaaaa gcttaccaag catcttccac caagaacaat tggctatcca 420
tggactcttg tttatggtac tggaaaacat ggcacaagct tgaaaactct ttatcgaaca 480
atgacagggt tagacacccc agtgctgatg gtgattaaag acagtgatgg acaggttttt 540
ggtgcgttag catctgagcc actgaaagtg agtgatggct tttatggtac tggagagacc 600
tttgttttta cattctgtcc ggagtttgag gtctttaagt ggacaggaga tgatatgttt 660
tttatcaaag gagacatgga ttcactagct ttcggtggtg gaggaggaga atttgcgctt 720
tggcttgatg gagatctcta ccatggaaga agccattctt gtaaaacgtt tgggaatcgt 780
acactttcta agaaggaaga tttctttatc caagatattg aaatctgggc ttttgaataa 840
ataaaatgct ctctgtctta gcaggagaat ggcccaaacc tgacatggac aagcattgtt 900
tggaaagttc aagaagcaat acagtgtaac atgtcacttg tgctttaaaa ttagtctgta 960
tcaccattta ttacagttat aattttggag tttatttttc aaatcatgtt cttgtcccag 1020
agttctttag gttaacacta gggactgcgt ccattgtacta gtataacagc ttgggtttgt 1080
tagaatttgg gcaacatttt gattataatg acaacttcat tttcacatgt tactcagttc 1140
cctaatagga tgggtgctctt ttgttgaacc tgtattgatt tttttttttt taactatatt 1200
gattcgttta ctagaacagt ctaattgggg cattgaggaa atgaagactg gatacttctg 1260
tatctgtgaa gttggcacag gtaacatttg gacatgttca tcttattctt aggaaggaaa 1320
aaatcacttg ccaaaataat acatacttca tagaccactg agttctagtt tttattcaca 1380
ctacaacatt ctctttaacg atgttgcagg tattctcaat ttctttttaa gaaaaatgaa 1440
atgtgaggag aattctggtt gtaatagatg acagtacata tgatctgcag gtttgggcat 1500
atgotttcat cattaaatta tctgataaag ttacaagtca caaaggagaa tgagaactta 1560
atgattctat tggatttaat atattagcaa gaaaacatac tatttacata tgtgtagctt 1620
agtaaggcat taacataagt acaaaaacta tgaacagat gcataatttc tcaacatact 1680
gtgtcaggta tactgtttta taatttggtt gttttagcct tattgcacac caactcccaa 1740
aatataggtt actcttgttc                                     1760

```

<210> 10709  
 <211> 269  
 <212> PRT  
 <213> Homo sapiens

<400> 10709

Met	Gln	Gln	Tyr	Ala	Gln	Arg	Asp	Lys	Lys	His	Glu	Tyr	Trp	Phe	Ala
1				5				10						15	
Val	Pro	Gln	Glu	Arg	Thr	Asp	His	Leu	Tyr	Ala	Phe	Phe	Ile	Gln	Trp
		20						25					30		
Ser	Pro	Glu	Ile	Tyr	Ala	Glu	Asp	Thr	Gly	Glu	Tyr	Thr	Arg	Glu	Pro
		35					40					45			
Gly	Phe	Ile	Val	Val	Lys	Lys	Ile	Glu	Glu	Ser	Glu	Thr	Ile	Glu	Asp
	50					55					60				
Ser	Ser	Asn	Gln	Ala	Ala	Ala	Arg	Glu	Trp	Glu	Ile	Thr	Thr	Arg	Glu
	65				70					75				80	
Asp	Ile	Asn	Ser	Lys	Gln	Val	Ala	Thr	Val	Lys	Ala	Asp	Leu	Glu	Ser
			85					90						95	
Glu	Ser	Phe	Arg	Pro	Asn	Leu	Ser	Asp	Pro	Ser	Glu	Leu	Leu	Leu	Pro
			100					105						110	



```
attcagaagc actcccctcc cccagcaaag aggtattttct attagtaaag catagtacac 1260
ccctcttctt taggtctgcc tgcagtagcc agttaatata agttggtaat ctgcagtgca 1320
caccatttta aaaaaatgga taccttcccc aaactaatcc atctcctttt ttttcttccc 1380
acagcgittg ctgccaatg atggggcaaa tgatctcttt ttttcagcca cctccactga 1440
ctcctacctc caaagtttat actatcagac cttattttcc taaggatgag gcacccgtgt 1500
acaagatttg cagagaaatg tatgacgatg gagtgggttt acc 1543
```

<210> 10711  
 <211> 1481  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (130).. (330)

```
<400> 10711
taatgcaact aaaatgttct cgggttttagt accaagcgta ctagtatgag aggcatgaga 60
tgttccggca gtattttacac ctaattttat gagattttcca aaacttgatg atttcaggtc 120
cttcgcaaca tggtagactg tgcagacctg agcaacccca ccaagtcctt ggaattgtat 180
cggcaatgga cagaccgcat catggaggaa tttttccagc agggagacaa agagcgggag 240
aggggaatgg aaattagccc aatgtgtgat aaacacacag cttctgtgga aaaatccag 300
gtatctaata tgagattttc aaagtttttg tgagctctgc tgattataga gctggagggt 360
tctatttaat tccgtttttc caatagaata tgtatatatg aaacaataag gagacaacta 420
cgcattttgt tccattatag tcaggactca tgcgacttct ccattacact cagtttcaca 480
gggtggggaa aagtagtcat cagaaaccca tcaaaatttg gactatgtgt ccctaaatca 540
tttagatagt tgtctctgat gttagcaaat ccagctgaat aatatgaaca tcagtgtctc 600
ctccatccca accctctgga tttctcctag ctctgtcttc attcaagaac totactcctc 660
atccttgott ccagccctct gtttttatct tctgtcctta atcaagccca tggtgaccat 720
caccagaggc agtctctttt actgcatagt caaagccctg tcttgtcttc cctcccaagg 780
atgcttctat gcttttgaga acatgctgac attttctggg tgtgtccaaa gcaacacatt 840
ctgtgtgtgc tcaggacagg ggacaatagt ctggaggggg gaatacagaa atgtccagat 900
gccaatagct gcagaatatg cagcaatgga aagtatcagt atccatacaa agatttttca 960
agaaaaacgaa tgggctgagc caagtagctg agattgagaa tgagttcata gactgtccaa 1020
gatctttatc ccaaaaacat ttggattgtt tattttcagt atttatcctc tttccctact 1080
acctggatac tccaaatttg catatacttg taatattaat atacagttcc ttgcaatat 1140
ttattttgtt gcttcttaga gaaacccaac taaatgagtt taaaaaatct gtgaaagggc 1200
tgggcacagt ggctcatgcc tgtaatccag cactttggga ggctgagggt gacggatcac 1260
ctgaggtcag gagttcaaaa ccagcctggc caacatgggt aaaccctgtc tctacaaaaa 1320
acacacaaaa aattggtcga gcatggtagt gtgtgcctgt agtcccagct actcgggaag 1380
ctgagacagg aaaattgctt gaaccagga ggcgacgtt gcagtgagct gagattgtgc 1440
cactgcattc cagcctgggc aacagagcaa gactctatct c 1481
```

<210> 10712  
 <211> 67  
 <212> PRT



<213> Homo sapiens

<400> 10712

Met	Val	His	Cys	Ala	Asp	Leu	Ser	Asn	Pro	Thr	Lys	Ser	Leu	Glu	Leu
1				5				10					15		
Tyr	Arg	Gln	Trp	Thr	Asp	Arg	Ile	Met	Glu	Glu	Phe	Phe	Gln	Gln	Gly
		20						25					30		
Asp	Lys	Glu	Arg	Glu	Arg	Gly	Met	Glu	Ile	Ser	Pro	Met	Cys	Asp	Lys
		35					40					45			
His	Thr	Ala	Ser	Val	Glu	Lys	Ser	Gln	Val	Ser	Asn	Met	Arg	Phe	Ser
	50					55					60				
Lys	Phe	Leu													
	65														

<210> 10713

<211> 1628

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (22).. (1626)

<400> 10713

aaagcaaaaa	aattagtaga	aatggaaa	gaacatgaaa	aatcacttag	tgaaattaga	60
cagttaaaga	gagaacttga	gaatgttaag	gccaaagcttg	ctcagcacgt	caaaccagag	120
gaacatgaac	aggttaagag	cagattagaa	cagaaatcag	gagaacttgg	gaagaagatc	180
actgagttaa	cattgaaaaa	tcagacacta	caaaaggaaa	ttgaaaaagt	ttatttggat	240
aataagctcc	tcaaggagca	agcacataac	ttaacaattg	aaatgaaaaa	tcattatgtt	300
cctttaaaag	taagtgaaga	catgaaaaag	tcacatgatg	caattattga	tgatcttaat	360
agaaagcttt	tagatgtaac	acaaaaatat	acagaaaaga	agttggaaat	ggagaaattg	420
ctactggaaa	atgacagctt	aagtaaggat	gtaagccgcc	tagaaactgt	gtttgtacct	480
cctgagaaac	atgaaaaaga	gataatagct	ctgaaatcca	atattgttga	acttaagaaa	540
cagctgtctg	aacttaagaa	aaaatgtggt	gaagaccagg	agaaaataca	cgctctcaca	600
tctgaaaaca	ctaacttgaa	gaagatgatg	agtaatcagt	atgtgccagt	taaaacccat	660
gaagaggtta	aaatgacact	gaatgacacg	ttagccaaaa	ctaacagaga	attattagat	720
gtgaagaaaa	aatttgaaga	tataaatcag	gaatttgtaa	aaataaaaga	taagaatgaa	780
atattaaaaa	gaaacctgga	aaacactcag	aaccaaaata	aagctgagta	catcagcctg	840
gcagagcacg	aggcaaagat	gagctcgcta	agtcagagca	tgagaaaggt	gcaggatagt	900
aatgctgaaa	tcttggccaa	ctacagaaaa	ggccaagaag	agattgtgac	actgcatgcc	960
gaaattaaag	cccagaagaa	ggagctcgac	acaatacaag	aatgcattaa	ggtaaaatat	1020
gccccaatg	tcagctttga	ggagtgcgag	agaaaattta	aagcaacaga	gaaagaacta	1080
aaagaccagt	tatcagagca	gacacaaaag	tatagtgtca	gtgaagaaga	agtcaagaaa	1140
aacaagcaag	agaatgacaa	gttaaagaag	gagattttta	cccttcagaa	agatttgaga	1200
gataagacag	ttctcattga	gaagtctcat	gaaatggaaa	gagcattaag	cagaaaaaca	1260
gacgagctaa	acaaacagtt	aaaagacttg	tcacagaaat	acacggaagt	aaagaatgtg	1320
aaagagaagc	tagtagaaga	aaatgccaaa	cagacttctg	agatacttgc	agtgcaaaaat	1380

cttttgcaaa aacaacatgt tccattggaa caggttgagg ctctgaaaaa atctcttaat 1440  
ggcacaattg aaaatctaaa ggaagaactg aagagtatgc aaagggtgta cgagaaagag 1500  
cagcagacag tgaccaaact gcatcaattg ttggagaatc aaaagaactc ttctgtaccc 1560  
ctggcagagc atttgcagat taaagaagca tttgagaaag aagttggaat cataaaaagcc 1620  
agcttgag 1628

<210> 10714  
<211> 535  
<212> PRT  
<213> Homo sapiens

<400> 10714  
Met Glu Arg Glu His Glu Lys Ser Leu Ser Glu Ile Arg Gln Leu Lys  
1 5 10 15  
Arg Glu Leu Glu Asn Val Lys Ala Lys Leu Ala Gln His Val Lys Pro  
20 25 30  
Glu Glu His Glu Gln Val Lys Ser Arg Leu Glu Gln Lys Ser Gly Glu  
35 40 45  
Leu Gly Lys Lys Ile Thr Glu Leu Thr Leu Lys Asn Gln Thr Leu Gln  
50 55 60  
Lys Glu Ile Glu Lys Val Tyr Leu Asp Asn Lys Leu Leu Lys Glu Gln  
65 70 75 80  
Ala His Asn Leu Thr Ile Glu Met Lys Asn His Tyr Val Pro Leu Lys  
85 90 95  
Val Ser Glu Asp Met Lys Lys Ser His Asp Ala Ile Ile Asp Asp Leu  
100 105 110  
Asn Arg Lys Leu Leu Asp Val Thr Gln Lys Tyr Thr Glu Lys Lys Leu  
115 120 125  
Glu Met Glu Lys Leu Leu Leu Glu Asn Asp Ser Leu Ser Lys Asp Val  
130 135 140  
Ser Arg Leu Glu Thr Val Phe Val Pro Pro Glu Lys His Glu Lys Glu  
145 150 155 160  
Ile Ile Ala Leu Lys Ser Asn Ile Val Glu Leu Lys Lys Gln Leu Ser  
165 170 175  
Glu Leu Lys Lys Lys Cys Gly Glu Asp Gln Glu Lys Ile His Ala Leu  
180 185 190  
Thr Ser Glu Asn Thr Asn Leu Lys Lys Met Met Ser Asn Gln Tyr Val  
195 200 205  
Pro Val Lys Thr His Glu Glu Val Lys Met Thr Leu Asn Asp Thr Leu  
210 215 220  
Ala Lys Thr Asn Arg Glu Leu Leu Asp Val Lys Lys Lys Phe Glu Asp  
225 230 235 240  
Ile Asn Gln Glu Phe Val Lys Ile Lys Asp Lys Asn Glu Ile Leu Lys  
245 250 255  
Arg Asn Leu Glu Asn Thr Gln Asn Gln Ile Lys Ala Glu Tyr Ile Ser  
260 265 270  
Leu Ala Glu His Glu Ala Lys Met Ser Ser Leu Ser Gln Ser Met Arg

096229469.072800



```

gtcagtgtct atctggaaat ttctacgtga gaggtgatgg aaccagagtt tactttcttca 240
cacaagagga actggacacg cttttcacca ctgctggact ggaaaaagtt cagaacctgg 300
tggatcgccg actgcaggtg aaccgaggaa agcaactgac aatgtaccgg gtttggattc 360
agtgcaaata ctgcaagccc cttctgtcca gcaccagctg agaggcacct gctgccaaaca 420
cgatgcaagc ccatttgttt tccgggcttt ttttaaaaaa aaaattgtag cactgggcgt 480
ggtgcatgcc tgtaatccca gccactcagg aggttgaggc ggggaggatc cattgagccc 540
agcagtccaa cctgggcaaa atagtggagag accctgtatc tgaaagtaat aataaaaaata 600
aaaaatataa atgaggtctc gttgatgttg gacaattcaa gaattcagac ttgaacctta 660
aacctaggaa aagttacttt gtatcaggat totaacaatt atgcttcata tttgtgaagt 720
cctttaaaac ataattttct caagttcttt ctttgagatc tcaatctgtc ttagcatttt 780
gtaactaata actgaaattt tattcaaagg aattgtaaac cttaaaccac caattttattt 840
ccatgtgaaa aagtgttaca tatgacaagt gttttttgac tgtaattgcg ttaaattcttt 900
tgagaatgta aatgccgggc taggcaattg cagttaatac atacagaggt tagtgaaggg 960
cttattaagt tgtaggggaa gcaagctggg aagaatcaga tcagatattt tcctgacaaa 1020
aaaaatgacc ctacagagag catcaaaatg tgggtgttctt gttaagtaat tgatcgtggt 1080
cttcgcttta atcttagttc cgcaggcac ggtggctcac acctgtaatc ccagcacttt 1140
gggaggccaa ggccggcgga tcagctgagg tcaggagttg gagaccagcg tggccaacat 1200
ggtgaaacc cgtctctact aaagataaaa aaattagctg agtgtgttg tgggtgcctg 1260
tagtccagct acttgggaga ctgaggcagg agaattgctt gaaccagga ggcagaggtt 1320
gcagtgagct gagattgtgc cactgcactc cagcctgggc aacaaagcaa gactctgtct 1380
caaaaaata aaaaataaaaa aaaaatctta gttccatgga attttaagca ttgttcccc 1440
tctaacctgt gtctaaggaa ttaaaagaat ttggccgggt gggcgagctc atgcctgtaa 1500
tccaacact ttgggaggct gaggcaggcg gatcacgagg tcaggagatc gagaccatcc 1560
tgccaacac ggtgaaacct cgtctccact aaaaatacca aaaaaattag ctgggcattg 1620
tggcacacac ctgtagtccc ctgtagtccc agctactcgg gaggctgagg caggagaatc 1680
gtttgaacct gggagggtga ggttgacgtg agccaagatc atgtcactgc attccagcct 1740
gggcaacaga ggaagactcc gtctc

```

<210> 10716  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 10716  
 Met Gln Lys Ala Ile Asn Arg Leu Ser Arg Leu Leu Lys Pro Gly Gly  
 1 5 10 15  
 Met Met Leu Leu Arg Asp Tyr Gly Arg Tyr Asp Met Ala Gln Leu Arg  
 20 25 30  
 Phe Lys Lys Gly Gln Cys Leu Ser Gly Asn Phe Tyr Val Arg Gly Asp  
 35 40 45  
 Gly Thr Arg Val Tyr Phe Phe Thr Gln Glu Glu Leu Asp Thr Leu Phe  
 50 55 60  
 Thr Thr Ala Gly Leu Glu Lys Val Gln Asn Leu Val Asp Arg Arg Leu  
 65 70 75 80  
 Gln Val Asn Arg Gly Lys Gln Leu Thr Met Tyr Arg Val Trp Ile Gln  
 85 90 95  
 Cys Lys Tyr Cys Lys Pro Leu Leu Ser Ser Thr Ser

00629469.072800

100

105

<210> 10717  
<211> 1592  
<212> DNA  
<213> Homo sapiens

<400> 10717  
ttctaagtct ttttaaggctt cttttcagcc cttcctcctc gtaatccaca aatactgaga 60  
ccaaggcatt ttttgggtca gtcctaattt caagcattct atoctgccct ccccaaata 120  
actcacactt attagaccat atgttcctat attagttcag gaagggggaa aaaatgttca 180  
tcacacttgt atataagaga tcatagaaaa acagtttact aacctgtgaa aataccattc 240  
attctctgtt tacctctggt ccacagctaa gcaatcagta ggatataaat gtaccctatg 300  
ttcactattc agtattcata agtatactac ttatgaattg gaaatctgac acaacattta 360  
catgacctaa ttttgaaaat ttaaaatagt gtaaggcccc taggcttaat tttacagggg 420  
aaagattaaa aggacacaag caaacatata ttctctctct gtgctgtggg acactggtaa 480  
ttttttgact taaaatattt gatactttaa atgccaaaact tctacatttc tgcagtaaca 540  
aggcagttat catattgaat accatttctt tctctccagt aagtaaata tagcacatga 600  
actgaaaata ttaagtgatt ataaaaaagt ccaaataaat tcattaaaa ttagcttggc 660  
aaaatgttag tttcatgttc ttggtagaag tcctttttata tttatattca aatgaaatga 720  
acaattttaca agcaaaggaa atggcatcaa atatttgaca cctgtcctcc caagggtgat 780  
tgattcatgc tttttgctca gatctaggtt tctccactca ggaaaagagg agaatgtacc 840  
catacttggg aaaacaagtt tccgatggca cagctttgat caaacagcaa aattctatcc 900  
atctatgtat tgccatctga cagtatgaca aatgggtccc tgtgcgatat tcacactgca 960  
ttgtagtcaa acctgtaagt caaaggatat gaaataatag taactacaca ttaagcacag 1020  
aagaaaatga aacaaacaaa aaggttttta accaaccaaa aatatgtctt attttggatg 1080  
ttctatatgt tottacattc tctcaggtct tttgtgtcgt tatgaacaca attotaacaa 1140  
gcttgattat tttatttcca ttcacatatt acaggcaaca agctgaaaaa gtagaacagg 1200  
gtgtagagag acaggacaaa gtacagatta gggcttgaag tgccctgac cagtcgacag 1260  
caaccacatg gaataatgac tcatgtgcat taatgatcac actaaatgat atttgttttt 1320  
tacctagtc tccaactgac agcttaaaga acttcaggtt gttctgattc ttgagtctcc 1380  
tctacaactt cagagaggac tttcatttta ttttgatca aatgctccac aactagttga 1440  
aactggaatt aaattttata tgaagttcct agatgattta aagctgtaag aagaagaata 1500  
atgaatcata agaaaacttg ctgctacaga tatcaaaaag gaatgttacc atccctcatg 1560  
ctaattcctt tcatttttaa taaacaggat ct 1592

<210> 10718  
<211> 2065  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (20).. (370)

<400> 10718

```

aggtgggggc cggggcgggga tggctgcagc ggcggccggg gccgggagcg ggccctgggc 60
ggcccaggag aagcagttcc cgccggcgct gctgagtttc ttcattctaca acccgcgctt 120
cggggccgcg gaaggacagg aggaaaataa gattttatatt tatcatccaa atgaggtaga 180
aaagaatgag aagattagaa atgtcggatt gtgtgaagct attgtacagt ttacaaggac 240
atttagccca tcaaaacctg caaaatcttt acatacacag aagaacagac agttcttcaa 300
tgaaccagaa gaaaatttct ggatggtcat ggtatttaca cacacagtgt atctttctga 360
aattgtatgg tgaagttatg ggtgatcttt actgttcaga atttaggaaa gttctctggc 420
tgttgcattc aagtaaaatt aaaataaaat tggttgcaat tttaaaatca agttcttcct 480
atttgcttta ttcattcttg gggctgtttt aagaagttgt gtttctgggt ctgtagcatg 540
ttcaaagttt ttaaattaag gcaaaataaa catggtctaa tgaattcatt gtataatttc 600
agtttatcaa actttgtagg ttgttcggaa tcctataatt gaaaaacaga gtaaagatgg 660
aaaaccagtt attgaatatt aagaggagga gttgttggta atgtgtcatt gttgtttat 720
ttatttatatt ttttaaatgt attgctgagt atgttgaatg ccttacttgg tcggatttaa 780
actaggaggc ttttgcagaa gtttctcggg gtatatagca aaggtttatg tttatcattt 840
acatgagcac aatcttttta aaatgtatat gcacccaatc tcactaatac cttctactct 900
tcattctatg tgaagccct cctaaagtaa ggcttactga ttgacaaatt agagttaaaa 960
cacttctggc tgggaacagt ggctcacacc tgtaatccta gtactttggg aggtcaaggc 1020
aggcagatta cttgaggtca ggggttcgag accagcctgg ccaatatggc ggaaccctgt 1080
ctctactaaa actacaaaaa ctggccaggg atgggtggcg acacctgtca tcccggttc 1140
tcaggaggct gaggcaggag aatcgcttga accggggagc caaatgttgc agtgagccag 1200
gattgtacca ctgcgctcca gcctggacaa cagagcgaga ctccatctca aaaaaaaaaa 1260
aaaaaaaaaa agaacgcaaa cacttttttt cagcacgcaa ctattgtggg atgaagttaa 1320
taaacattat actgtttggc caagagtcag tgtaccttg ccatctatcc agtagacatt 1380
gtttttccct tgaactgagc tgtgtgctgt gttttcgcgt ctgcaggaca aggtttatag 1440
ctcggtgctg cggcagtgct acagcatgta caaggtaagc gtggcgttct ttctcaactc 1500
agagtccaac cacttacctt tatctctagg ctccagggtt gtttaaagag aagtctataa 1560
atgactgcaa agtgactctg tatttgtctt agagaagaaa ataatgaggc ctttgaaaca 1620
ggtagtgagg tttatgccta cttttattca gtaagtattg aactcccttc tttttctca 1680
gccttatagt aggaatgtgt cccattgat gaaaaagtgt atctatgtgc tcaaggaaca 1740
tacagaatgc agataatttt atgatttaaa agtttcagtg aggcagggca cagtggatca 1800
cacctgtaat ttcagcattc tgggaggcta aggtgggagg attgcttgag ccaggaatt 1860
caggaccagt ctgggcaata tagcaagacc ccatctctac aaaaaaattt tataaaagt 1920
agccaggtat catggtgcat gcctgtagtc ccagctacct gggaggctga ggtgggagga 1980
tcgctcgcac cttggaggtc gaggtgcag tgaactgtga ttgcaccact gcactctacc 2040
ctgggcaaca gcgagattcc atctc

```

<210> 10719  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 10719  
 Met Ala Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro Trp Ala Ala Gln  
 1 5 10 15  
 Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe Ile Tyr Asn Pro  
 20 25 30  
 Arg Phe Gly Pro Arg Glu Gly Gln Glu Glu Asn Lys Ile Leu Phe Tyr

35	40	45
His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg Asn Val Gly Leu		
50	55	60
Cys Glu Ala Ile Val Gln Phe Thr Arg Thr Phe Ser Pro Ser Lys Pro		
65	70	75
Ala Lys Ser Leu His Thr Gln Lys Asn Arg Gln Phe Phe Asn Glu Pro		
85	90	95
Glu Glu Asn Phe Trp Met Val Met Val Phe Thr His Thr Val Tyr Leu		
100	105	110
Ser Glu Ile Val Trp		
115		

<210> 10720  
 <211> 1562  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (17).. (1483)

<400> 10720

cttccttcta	gcagaaatgg	cggctgcggc	ggctcgagtg	gtgttgtcat	ccgcggcgcg	60
gcggcggctc	tggggtttca	gcgagagtct	tctaatacga	ggcgcctgcg	gacggtcatt	120
atattttgga	gagaacagat	taagaagtac	acaggctgct	acccaagttg	ttctgaatgt	180
tcctgaaaca	agagtaacat	gtttagaaag	tggactcaga	gtagcttcgg	aagactctgg	240
gctctcaaca	tgcacagttg	gactctggat	tgatgctgga	agtagatacg	aaaatgagaa	300
gaacaatgga	acagcacact	ttctggagca	tatggctttc	aagggcacca	agaagagatc	360
ccagttagat	ctggaacttg	agattgaaaa	tatgggtgct	catctcaatg	cctataacct	420
cagagagcag	actgtatact	atgccaaagc	attctctaaa	gacttgccaa	gagctgtaga	480
aattcttgct	gatataatac	aaaacagcac	attggggagaa	gcagagattg	aacgtgagcg	540
tggagtaatc	cttagagaga	tgcaggaagt	tgaaccaaat	ttacaagaag	ttgtttttga	600
ttatcttcat	gccacagctt	atcaaaatac	tgcacttgga	cggacaattt	tgggaccaac	660
tgaaaatatc	aaatctataa	gtcgttaagga	cttagtggtg	tatataacca	cacattataa	720
ggggccaaga	atagtgttg	ctgctgctgg	aggtgtttcc	catgatgaat	tgcttgactt	780
agcaaagttt	catttcggtg	actctttatg	cacacacaaa	ggagaaatac	cagctctgcc	840
tccctgcaaa	ttcacaggaa	gtgagattcg	tatgagggat	gacaagatgc	ctttggcgca	900
ccttgcaata	gctgttgaag	ctgttggttg	ggcacatcca	gatacaatct	gtctcatggt	960
tgcaaacacg	ctgattggca	actgggatcg	ctcttttggg	ggaggaatga	atttatctag	1020
caagctggcc	cagctcactt	gtcatggcaa	tctttgccat	agctttcagt	ctttcaacac	1080
ttcctacaca	gatacaggat	tatggggact	gtatatggtt	tgtgaatcat	ccactgttgc	1140
agacatgcta	catgttgttc	aaaaagaatg	gatgcgactc	tgtacaagtg	tcacagaaaag	1200
tgaggttgca	cgagccagaa	atcttctgaa	aacaaacatg	ttgttgcagc	ttgatggttc	1260
aactccaatt	tgtgaagata	ttggtaggca	aatgttatgc	tataatagaa	ggattcccat	1320
ccctgagctt	gaagcaagaa	ttgatgctgt	gaatgctgag	acaattcgag	aagtatgtac	1380
caaatacact	tataatagga	gtccagctat	tgctgctgtt	ggtoccatta	agcaactacc	1440
agattttaaa	cagatacgca	gtaacatgtg	ttggcttcgt	gattaaaatg	ctcctaataca	1500

09529459.072800

agattgtttg aacacatgta ttataaaaac agagctagag aaaaataaaa atgaacatgt 1560  
at 1562

<210> 10721

<211> 489

<212> PRT

<213> Homo sapiens

<400> 10721

Met	Ala	Ala	Ala	Ala	Ala	Arg	Val	Val	Leu	Ser	Ser	Ala	Ala	Arg	Arg
1				5					10					15	
Arg	Leu	Trp	Gly	Phe	Ser	Glu	Ser	Leu	Leu	Ile	Arg	Gly	Ala	Ala	Gly
			20					25					30		
Arg	Ser	Leu	Tyr	Phe	Gly	Glu	Asn	Arg	Leu	Arg	Ser	Thr	Gln	Ala	Ala
		35					40					45			
Thr	Gln	Val	Val	Leu	Asn	Val	Pro	Glu	Thr	Arg	Val	Thr	Cys	Leu	Glu
	50				55					60					
Ser	Gly	Leu	Arg	Val	Ala	Ser	Glu	Asp	Ser	Gly	Leu	Ser	Thr	Cys	Thr
65				70					75					80	
Val	Gly	Leu	Trp	Ile	Asp	Ala	Gly	Ser	Arg	Tyr	Glu	Asn	Glu	Lys	Asn
			85					90						95	
Asn	Gly	Thr	Ala	His	Phe	Leu	Glu	His	Met	Ala	Phe	Lys	Gly	Thr	Lys
			100					105					110		
Lys	Arg	Ser	Gln	Leu	Asp	Leu	Glu	Leu	Glu	Ile	Glu	Asn	Met	Gly	Ala
		115					120					125			
His	Leu	Asn	Ala	Tyr	Thr	Ser	Arg	Glu	Gln	Thr	Val	Tyr	Tyr	Ala	Lys
	130					135					140				
Ala	Phe	Ser	Lys	Asp	Leu	Pro	Arg	Ala	Val	Glu	Ile	Leu	Ala	Asp	Ile
145				150						155				160	
Ile	Gln	Asn	Ser	Thr	Leu	Gly	Glu	Ala	Glu	Ile	Glu	Arg	Glu	Arg	Gly
			165					170					175		
Val	Ile	Leu	Arg	Glu	Met	Gln	Glu	Val	Glu	Thr	Asn	Leu	Gln	Glu	Val
		180					185					190			
Val	Phe	Asp	Tyr	Leu	His	Ala	Thr	Ala	Tyr	Gln	Asn	Thr	Ala	Leu	Gly
	195						200					205			
Arg	Thr	Ile	Leu	Gly	Pro	Thr	Glu	Asn	Ile	Lys	Ser	Ile	Ser	Arg	Lys
	210					215					220				
Asp	Leu	Val	Asp	Tyr	Ile	Thr	Thr	His	Tyr	Lys	Gly	Pro	Arg	Ile	Val
225				230						235				240	
Leu	Ala	Ala	Ala	Gly	Gly	Val	Ser	His	Asp	Glu	Leu	Leu	Asp	Leu	Ala
			245					250					255		
Lys	Phe	His	Phe	Gly	Asp	Ser	Leu	Cys	Thr	His	Lys	Gly	Glu	Ile	Pro
		260					265						270		
Ala	Leu	Pro	Pro	Cys	Lys	Phe	Thr	Gly	Ser	Glu	Ile	Arg	Met	Arg	Asp
	275						280					285			
Asp	Lys	Met	Pro	Leu	Ala	His	Leu	Ala	Ile	Ala	Val	Glu	Ala	Val	Gly
	290					295					300				

00629469-072000



Trp Ala His Pro Asp Thr Ile Cys Leu Met Val Ala Asn Thr Leu Ile  
 305 310 315 320  
 Gly Asn Trp Asp Arg Ser Phe Gly Gly Gly Met Asn Leu Ser Ser Lys  
 325 330 335  
 Leu Ala Gln Leu Thr Cys His Gly Asn Leu Cys His Ser Phe Gln Ser  
 340 345 350  
 Phe Asn Thr Ser Tyr Thr Asp Thr Gly Leu Trp Gly Leu Tyr Met Val  
 355 360 365  
 Cys Glu Ser Ser Thr Val Ala Asp Met Leu His Val Val Gln Lys Glu  
 370 375 380  
 Trp Met Arg Leu Cys Thr Ser Val Thr Glu Ser Glu Val Ala Arg Ala  
 385 390 395 400  
 Arg Asn Leu Leu Lys Thr Asn Met Leu Leu Gln Leu Asp Gly Ser Thr  
 405 410 415  
 Pro Ile Cys Glu Asp Ile Gly Arg Gln Met Leu Cys Tyr Asn Arg Arg  
 420 425 430  
 Ile Pro Ile Pro Glu Leu Glu Ala Arg Ile Asp Ala Val Asn Ala Glu  
 435 440 445  
 Thr Ile Arg Glu Val Cys Thr Lys Tyr Thr Tyr Asn Arg Ser Pro Ala  
 450 455 460  
 Ile Ala Ala Val Gly Pro Ile Lys Gln Leu Pro Asp Phe Lys Gln Ile  
 465 470 475 480  
 Arg Ser Asn Met Cys Trp Leu Arg Asp  
 485

<210> 10722  
 <211> 2536  
 <212> DNA  
 <213> Homo sapiens

<400> 10722  
 cataattttc tatctatggt acccttggct tctgcctggc ttctgaggct tagggaaggg 60  
 aggaaggggac ctacaaagag ccagggtaca cctgcctctt gtgttgaggg cagtgccag 120  
 cttctctgcc agtaagcctt ttgctagcta acatttccca cctcccaag gccctaacc 180  
 tgccctcccc tctccactat gttagtatat ctacctctgt ttctgactct gaggaaggg 240  
 caggccacac ggagggaaca gtagtgggta ccagcctccc ctctgctgtc cagtccacca 300  
 catcaatctc ttctcttcca gagctggcag gaagttagcc tagtagttca gtagtaccag 360  
 atacctcctt gcctgccttg ggagaagggt ataataactc atctgtagtc aaggagactt 420  
 ccagcccagt ctccacccag tttgagcagg gaggtgagag gtccccataa gacctctggg 480  
 gagtatcaag ggagctgaca tggagaagtt tgtcttcctg accatccagt ggctggggagc 540  
 tggtaatttc aaggtctggt gtccaacggc ctctactga aagcacttca ctacactcag 600  
 agggcatgac aagggggcta aggagctcag ttggccctct gttctcacca gcaggttcct 660  
 ttccaatttc tgtgagctcc ctgggccaga gttccatgtc tggtagacac cattcttccc 720  
 ctccaatcca gttctttcct gtttctgtca gatggtagggt aggcgttctg cagccctcag 780  
 cccctggact ctccagagac cctatagggt gttcaatgtc tgagccacag agcatgaagt 840  
 ccaggatctc ctccagctca ctggtggcag cagcacttgt gattcgggtac tctcagcct 900  
 cacagggctg ctccagcaga gctgtgtcaa atgcataggg ttctctgcag tcaatagcca 960

000220.6962960

```

acataggttc cttctctacc agttctggac tggactcaaa ctctgacttc accactgggt 1020
ggtctgggga gtggctagca gagaccagaa tgtctttag cttagtgcac atgggggagt 1080
cctgacacag ttctgttcta gtaggtgaca ttctctgctc attactggag aatggctgag 1140
ttcctgaagg ctcttggaa gtcctcogg gatctgggat ctgggggcta tcttgagtgt 1200
ttttgagagg agtctcttgt accacttccc agcaagtccc attgacaatc ttcctaagtt 1260
taactctccc aacctgcccc tcctctgcag agtctgagtt aggtgccctg acttcagggc 1320
tccgcttcct gctccacact gtctttccca gaccagatgg gtttggggtg ctctgcagag 1380
gactagctct gcctggtttt ggcttgtcct ctgggtgttc tttatttaca ctctctgcc 1440
gccaaagacg ccggccagg gttgcaggca ctgagctaga tccacttaaa atgctggaag 1500
gctttgatgt acagatacca ggagatggct ttgagcgact gagcctgac tttctgggca 1560
acaggtgttt gtccacagag gggatagaagc tgggtgggga gagcactgta ggatcaagg 1620
cagtgtcatt ctgtttctct ctaggctctt gactatggct tgatggtgaa gagttttttt 1680
ttcttgtaga gttgggcagg ctctggcctt cctcttgagc agaagagtgc cagacaaatt 1740
gtctgcattc tgtcggttgt tttctgagg gaatggagga ggcgaccgtt gttatcgagc 1800
tggcctctcc cgctccaggc gctctgtgaa gaaggggcta caagctgaca ggatgcagca 1860
gtgagctgga actgcctcac ctgaaggga acccaaatac ttttgttatc aggtagactg 1920
gcatgttcat gggctaagca tagacattac tacccaaata tactgcccc tcttttattt 1980
tccttccatg ggacttcaag taaaagaaaa aaattattct tctgcctgcc tggaaacctc 2040
tgccattacc ttttgccatg ctattttttt ttttttttt gagacagtct cgcttggttg 2100
cccaggctgg agtgcagtgg tgcaatctca gctcactgca acctctgcct cccgggttca 2160
agcaattctc ctgtcttagc ctcccagta gctgggatta caggcgcatg ctgccacacc 2220
cggctaattt ttgtattttt agtagagacg gggtttcacc ttgttggtca ggccggtctc 2280
ctgacctcag gtgatccacc cgctcggcc tcccagagt ctgagattac aggcgtagc 2340
caccgtgtcc agcccgtac ctgttttctt tattctcaaa atctacctt gtcactactt 2400
ccttcagaaa gcctcctggg gctgagtgca gtgccacatg cttgaaatcc caactgttag 2460
gtaggctgaa gcaggagaat tgcttgagtc cagggtttg aggtagacct ggggaacaca 2520
gttatacctt gtctcc 2536

```

<210> 10723  
 <211> 1564  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (314)..(1138)

```

<400> 10723
gaagcacatc tggacagctg tgcggcctcc ttgcgggccc aogtcagccg agcacgtccc 60
ccacgtcctc tccttctcgc cacttattat ttattcgttt tcccaaagaa gcgactagg 120
acccaagttt aaaaattcct ccccccactc aatgcgagac gtggccagat cccatccaac 180
acacggttta attttcatgg ggctctggga tcaaaagaac agaaacagca acaacaaaag 240
cccagccgct gtctgatttt aagctggcaa agtgggaaaa ataaagtgtt gagtaaacag 300
accaagttgg atcatgggga atttcagagg tcatgccctc cctggaacct tcttttttat 360
tattggctct tgggtggtgta caaagagtat tctgaagtat atctgcaaaa agcaaaaagc 420
aacctgctat cttggttcca aaacattatt ctatcgattg gaaatttttg aggggaattac 480
aatagttggc atggctttaa ctggcatggc tggggagcag tttattcctg gagggcccca 540

```

```

tctgatgtta tatgactata aacaagggtca ctggaatcaa ctctctgggct ggcatcattt 600
caccatgtat ttcttctttg ggctgttggg tgtggcagat atcttatgtt tcaccatcag 660
ttcacttcct gtgtccttaa ccaagttaat gttgtcaaat gccttatttg tggaggcctt 720
tatcttctac aaccacactc atggcoggga aatgctggac atctttgtgc accagctgct 780
ggttttggtc gtctttctga caggcctcgt tgccttccta gatttccttg ttcggaacaa 840
tgtacttctg gagctattgc ggtcaagtct cattctgctt caggggagct ggttctttca 900
gattggattt gtccctgtat cccccagtgg aggtcctgca tgggatctga tggatcatga 960
aaatattttg tttctcacca tatgcttttg ttggcattat gcagtaacca ttgtcatcgt 1020
tggaatgaat tatgctttca ttacctgggt ggttaaatct agacttaaga ggctctgctc 1080
ctcagaagtt ggacttctga aaaatgctga acgagaacaa gaatcagaag aagaaatgtg 1140
actttgatga gcttcagtt tttctagata aaccttttct tttttacatt gttcttgggt 1200
ttgtttctcg atcttttgtt tggagaacag ctggctaagg atgactctaa gtgtactgtt 1260
tgcatttcca atttgggtta agtatttgaa tttaaatatt ttctttttag ctttgaaaaat 1320
attttgggtg atactttcat tttgcacatc atgcacatca tggatttcag gggctagagt 1380
gatttttttc cagattatct aaagttaggt gccacacta tgaaagaaat atttgtttta 1440
tttgcttat agatatgctc aaggttactg ggcttgcctac tatttgtaac tccttgacca 1500
tggaattata cttgtttatc ttgttgcctg aatgagaaat aaatgaatgt atgtattttg 1560
gtgc 1564

```

<210> 10724  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<400> 10724

```

Met Gly Asn Phe Arg Gly His Ala Leu Pro Gly Thr Phe Phe Phe Ile
  1             5             10             15
Ile Gly Leu Trp Trp Cys Thr Lys Ser Ile Leu Lys Tyr Ile Cys Lys
             20             25             30
Lys Gln Lys Arg Thr Cys Tyr Leu Gly Ser Lys Thr Leu Phe Tyr Arg
             35             40             45
Leu Glu Ile Leu Glu Gly Ile Thr Ile Val Gly Met Ala Leu Thr Gly
             50             55             60
Met Ala Gly Glu Gln Phe Ile Pro Gly Gly Pro His Leu Met Leu Tyr
             65             70             75             80
Asp Tyr Lys Gln Gly His Trp Asn Gln Leu Leu Gly Trp His His Phe
             85             90             95
Thr Met Tyr Phe Phe Phe Gly Leu Leu Gly Val Ala Asp Ile Leu Cys
             100            105            110
Phe Thr Ile Ser Ser Leu Pro Val Ser Leu Thr Lys Leu Met Leu Ser
             115            120            125
Asn Ala Leu Phe Val Glu Ala Phe Ile Phe Tyr Asn His Thr His Gly
             130            135            140
Arg Glu Met Leu Asp Ile Phe Val His Gln Leu Leu Val Leu Val Val
             145            150            155            160
Phe Leu Thr Gly Leu Val Ala Phe Leu Glu Phe Leu Val Arg Asn Asn
             165            170            175

```

008240" 69462960

Val Leu Leu Glu Leu Leu Arg Ser Ser Leu Ile Leu Leu Gln Gly Ser  
180 185 190  
Trp Phe Phe Gln Ile Gly Phe Val Leu Tyr Pro Pro Ser Gly Gly Pro  
195 200 205  
Ala Trp Asp Leu Met Asp His Glu Asn Ile Leu Phe Leu Thr Ile Cys  
210 215 220  
Phe Cys Trp His Tyr Ala Val Thr Ile Val Ile Val Gly Met Asn Tyr  
225 230 235 240  
Ala Phe Ile Thr Trp Leu Val Lys Ser Arg Leu Lys Arg Leu Cys Ser  
245 250 255  
Ser Glu Val Gly Leu Leu Lys Asn Ala Glu Arg Glu Gln Glu Ser Glu  
260 265 270  
Glu Glu Met  
275

<210> 10725  
<211> 2108  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (97).. (1836)

<400> 10725  
acttgctttt tctcccgctt tgtaattgta ggagaaaacc aaagaactag cagagaagca 60  
ggcgcaactg agcccatctc gctggccagc tgcgccatgg ctgatctggt tccagacttg 120  
cagcccattc ttttctggat gtctaactcc atcgagctcc tgtactttat ccagcagaaa 180  
tgcccactct acatgcagag catggaggag cagctggaca tcacaggctc gaagggaatcg 240  
ctgttctcct gcacgctgac ggccagcgag gaggccatgg cgggtgctgga ggagggtggtg 300  
ctgtacgcct tccagcagt cgtctactat gtctccaagt cctgtacat ctgcctcccc 360  
gcactcctgg agtgcccgcc attccagacg gagcgccgtg agagctggtc ctgggcccc 420  
gaactgcccg aggagctgcg ccgctgtgtg tctgtgtacc aggcagccct ggacctcctg 480  
cggcagctgc aggtgcaccc cgagggtggc tcgcagatgc tcgcctacct cttcttcttc 540  
tccgggacac tgcttctcaa ccagctcctc gacaggggoc cctccctgag ctgcttcac 600  
tggcccagag gtgtccaggc ctgcgcccgc ctgcagcagc tcctggagtg gatgcggagc 660  
gccggcttcg gggcggctgg agagcacttc ttccagaagc totcctgcac cctcaacctg 720  
ctggccacac ccagggccca gctcatccag atgagctgga cagccctgcg ggctgcgttc 780  
cccgcactga gccagcaca gctgcaccgg ctgctgactc actaccagct ggccctggcc 840  
atgggccccca tgagcacctg ggagccaggg gccaggaca gcccagaggc cttcaggtca 900  
gaggatgttc tggagtccta cgaaaacccc ccaccatcg tcctgcccag cgacggcttc 960  
cagggtggact tggagccaa ctgcctggac gacagcatct accagcacct gctctacgtc 1020  
cgccactttc tgtggggtct gcgagcaga gccagccccg gcagccctgg caggcctggc 1080  
agtggggcct ccagccagt gtgccccgag ggtatgcacc acgtggtcct tgacggggcac 1140  
ctggaggccc cgagctgccc cctggctccc agggaccctg gccagcagc ccgggaagtg 1200  
gccccggagc gtactcttcc cttgaggggg gctccctggg cacaggcccc ccttggaagt 1260  
caaccgggcc gtgggggctc ccaggctggc ccccgccaca cggactcgtc ctgcttgctc 1320

09629469.07800

```

acgcctccca gcactccact tggccctgag cctggggacc ccgactggcc agagtccggc 1380
ggccccctgtg gaaaagcgct cccagagagg cagaggaacg gactcagcgg cctccgggggt 1440
gcagctccgg aaggagactc tgcagccctt gggaggaggt cccctccagc cccgtccagc 1500
cgcagctcca gcaccgagga cttctgctac gtcttcacgg tggagctgga acgaggcccc 1560
tccgggctgg ggatgggcct gatcgacggg atgcacacgc acctggggcg ccccggggctc 1620
tacatccaga ccctgctccc gggcagcccc gcagcggcgg acgggcgcct gtcgctgggg 1680
gaccgtatcc tggaggtgaa tggcagcagc ctcttggggc ttggctacct gagagctgtg 1740
gacctgatcc gtcatggcgg gaagaagatg cggttcctgg tcgcgaagtc cgacgtggaa 1800
acagccaaga agatccattt ccgcacgccc cctctctagg ggggctgca ggacaccccc 1860
acaggccccg caccgggtcc cacctgggtga cactgggctt cctcccgct tcgtccccgt 1920
tttgtaactg accaagttgg gtcccggtg gggagcctca cctggggac atgcctgttg 1980
ataacatgca tctcagtgtg ggttctatct atatggcaga tgacgtgaaa ttgtgatgtt 2040
tgttacagag cttttatgtt taaagacttc aatggagaag tacggttcaa taaactatct 2100
ttccccgtt                                     2108

```

<210> 10726  
 <211> 580  
 <212> PRT  
 <213> Homo sapiens

<400> 10726

Met	Ala	Asp	Leu	Val	Pro	Asp	Leu	Gln	Pro	Ile	Leu	Phe	Trp	Met	Ser
1				5				10						15	
Asn	Ser	Ile	Glu	Leu	Leu	Tyr	Phe	Ile	Gln	Gln	Lys	Cys	Pro	Leu	Tyr
			20					25					30		
Met	Gln	Ser	Met	Glu	Glu	Gln	Leu	Asp	Ile	Thr	Gly	Ser	Lys	Glu	Ser
			35				40					45			
Leu	Phe	Ser	Cys	Thr	Leu	Thr	Ala	Ser	Glu	Glu	Ala	Met	Ala	Val	Leu
	50					55					60				
Glu	Glu	Val	Val	Leu	Tyr	Ala	Phe	Gln	Gln	Cys	Val	Tyr	Tyr	Val	Ser
65					70					75					80
Lys	Ser	Leu	Tyr	Ile	Cys	Leu	Pro	Ala	Leu	Leu	Glu	Cys	Pro	Pro	Phe
				85					90					95	
Gln	Thr	Glu	Arg	Arg	Glu	Ser	Trp	Ser	Ser	Ala	Pro	Glu	Leu	Pro	Glu
			100					105					110		
Glu	Leu	Arg	Arg	Val	Val	Ser	Val	Tyr	Gln	Ala	Ala	Leu	Asp	Leu	Leu
		115					120					125			
Arg	Gln	Leu	Gln	Val	His	Pro	Glu	Val	Ala	Ser	Gln	Met	Leu	Ala	Tyr
	130					135					140				
Leu	Phe	Phe	Phe	Ser	Gly	Thr	Leu	Leu	Leu	Asn	Gln	Leu	Leu	Asp	Arg
145					150					155					160
Gly	Pro	Ser	Leu	Ser	Cys	Phe	His	Trp	Pro	Arg	Gly	Val	Gln	Ala	Cys
				165					170					175	
Ala	Arg	Leu	Gln	Gln	Leu	Leu	Glu	Trp	Met	Arg	Ser	Ala	Gly	Phe	Gly
			180				185						190		
Ala	Ala	Gly	Glu	His	Phe	Phe	Gln	Lys	Leu	Ser	Cys	Thr	Leu	Asn	Leu
		195					200						205		

09629469.072800

-4207/13211-

Leu Ala Thr Pro Arg Ala Gln Leu Ile Gln Met Ser Trp Thr Ala Leu  
210 215 220  
Arg Ala Ala Phe Pro Ala Leu Ser Pro Ala Gln Leu His Arg Leu Leu  
225 230 235 240  
Thr His Tyr Gln Leu Ala Ser Ala Met Gly Pro Met Ser Thr Trp Glu  
245 250 255  
Pro Gly Ala Gln Asp Ser Pro Glu Ala Phe Arg Ser Glu Asp Val Leu  
260 265 270  
Glu Ser Tyr Glu Asn Pro Pro Pro Ile Val Leu Pro Ser Asp Gly Phe  
275 280 285  
Gln Val Asp Leu Glu Ala Asn Cys Leu Asp Asp Ser Ile Tyr Gln His  
290 295 300  
Leu Leu Tyr Val Arg His Phe Leu Trp Gly Leu Arg Ser Arg Ala Ser  
305 310 315 320  
Pro Gly Ser Pro Gly Arg Pro Gly Ser Gly Ala Ser Gln Pro Val Cys  
325 330 335  
Pro Glu Gly Met His His Val Val Leu Asp Gly His Leu Glu Ala Pro  
340 345 350  
Ser Cys Pro Leu Ala Pro Arg Asp Pro Gly Pro Ala Ala Arg Glu Val  
355 360 365  
Ala Pro Glu Arg Thr Leu Pro Leu Arg Gly Ala Pro Trp Ala Gln Ala  
370 375 380  
Pro Pro Gly Arg Gln Pro Gly Arg Gly Gly Ser Gln Ala Gly Pro Pro  
385 390 395 400  
His Thr Asp Ser Ser Cys Leu Leu Thr Pro Pro Ser Thr Pro Leu Gly  
405 410 415  
Pro Glu Pro Gly Asp Pro Asp Trp Pro Glu Ser Gly Gly Pro Cys Gly  
420 425 430  
Lys Ala Leu Pro Glu Arg Gln Arg Asn Gly Leu Ser Gly Leu Arg Gly  
435 440 445  
Ala Ala Pro Glu Gly Asp Ser Ala Ala Leu Ala Glu Glu Ser Pro Pro  
450 455 460  
Ala Pro Ser Ser Arg Ser Ser Ser Thr Glu Asp Phe Cys Tyr Val Phe  
465 470 475 480  
Thr Val Glu Leu Glu Arg Gly Pro Ser Gly Leu Gly Met Gly Leu Ile  
485 490 495  
Asp Gly Met His Thr His Leu Gly Ala Pro Gly Leu Tyr Ile Gln Thr  
500 505 510  
Leu Leu Pro Gly Ser Pro Ala Ala Ala Asp Gly Arg Leu Ser Leu Gly  
515 520 525  
Asp Arg Ile Leu Glu Val Asn Gly Ser Ser Leu Leu Gly Leu Gly Tyr  
530 535 540  
Leu Arg Ala Val Asp Leu Ile Arg His Gly Gly Lys Lys Met Arg Phe  
545 550 555 560  
Leu Val Ala Lys Ser Asp Val Glu Thr Ala Lys Lys Ile His Phe Arg  
565 570 575  
Thr Pro Pro Leu  
580

09629469.072800

<210> 10727  
 <211> 1352  
 <212> DNA  
 <213> Homo sapiens

<400> 10727

```

ccaatatgag gaggaagact ccgtaaattcc aacaaacagg agaattagca ccaaaagaac 60
ttaagatctt aacagaatgg tticaaagaa aatgtagtat atgaagtcaa aagctcaatg 120
gacttgctaa atagcaaatt agttaaaatt caatgaataa gttaaaaaca gcttaagaaa 180
agaattagcg tttgaggctg ccatgagcct caaacatcca gcctttttatc tctctgtagc 240
ataaagagat aaaaaaagta gaaaaaatta taggaagggtt aaatattgga ggactgaatg 300
agaaagtccc acatacatct cataaggaat ctagaacaag agagaaaata agaaaactaa 360
tttcaaaatg aaaatagatg agaattttcc agaaattcaa tttcattcct caaattaaag 420
aagcacaaca catccccagc aagttaaata aaaataaatc cacagacatc tccagtgaag 480
ctcaatacca aattcaaaga tacaatctta aaagaaccaa agattaccta gtatgaatgc 540
agactggcat catgtttttt gcaacatcag gggccagatg acaatggaat aaagtaatat 600
ctttgaagta atgagaaaaa atatcaatct agaattctat acccacctta gctattttta 660
agagtaaggg taaaataaaa tttcactctt gcagaaagga caccacaactc tagagttaga 720
aaacagtaac caaaaataag gtgggactca aagactaaaa tatgttggtt aatctaaatc 780
agcaatgact gcataaaaca acattaatag ttaacttagg aagttgttaa gataaatgta 840
aaatactagg caataacaac atagtacatg agaagaattg atggccatta attctttttt 900
tttttttttt ttttttgaga tggagtctog ctctatcgcc caggctggag tgcagaggca 960
ctatctcggc tcaactgcaag ctccatctcc cgggttcacg ccattctcct ggatgaccat 1020
taattctaatt gtcttagtat cattgaggac atgagtagga gttctgatta atattacaaa 1080
tctttataaa atcaaatatg catgctaaaa atttgatgca tattcctaga ttctgaggaa 1140
ttctagcaaa gtggcaggaa tgacagaatt ataaagttgc tattttgcaa ctgctaacaa 1200
agtaactgat ttaggcaaag atcaatggat gaaacctttt agctaaaaag ttgatgggaa 1260
acttcacagt gagtggggaa cacatgggtc gtgcctgaac ccactaagtg tgcactgaat 1320
gtggtattac cagagaatac agcaccacct ac 1352
    
```

<210> 10728  
 <211> 1520  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> CDS

<222> (69).. (1328)

<400> 10728

```

aggagcttgc agtagcgggc ggcagagctg gagtgaaggg agctagtgtt taggtagcag 60
tcaccattat gctcaaagcg gtgaccttga ttggaggccc tcaaaaggga actcgcttca 120
gacctttgtc ttttgagggtg cccaaaccat tgtttcctgt ggcaggggtc cctatgatcc 180
aacaccatat tgaagcctgt gccaggtcc ctggaatgca ggagattctg ctcatgggt 240
tctaccaacc tgatgagccc ctcaccctgt tctagaagc cggccagcag gaggtttaacc 300
    
```

```

ttccagtcag gtacctgcag gaatttggcc ccctaggcac aggggggtggt ctttaccatt 360
ttcgagacca gatcctgggt gggagccccg aggcattctt cgtgctcaat gctgatgtct 420
actccgactt ccccttgagt gctatgttgg aagcccaccg acgccagcgt caccctttct 480
tactccttgg cactacggct aacaggacgc aatccctcaa ctacggctgc atcgttgaga 540
atccacagac acacgaggta ttgcaactatg tggagaaaacc cagcacattt atcagtgaca 600
tcatcaactg cggcatctac ctcttttctc ctgaagcctt gaagcctctt cgggatgtct 660
tccagcgtaa tcagcaggat gggcaattgg aggactcacc aggcttgtgg ccaggggcag 720
gtaccatccg cctagagcag gatgtgtttt cagccctggc agggcagggc cagatatacg 780
tgcatctcac tgatggtatc tggagtcaga tcaagtccgc aggttcagcc ctctacgcct 840
cccgctcta cctgagccga taccaggaca ctacccaga acggctggcc aagcacacc 900
cagggggccc atggatccga gggaatgtgt acatccacc gaccgccaag gtggccccct 960
cggctgtgct gggccccaac gtctccatcg ggaaggggggt gaccgtgggt gagggtgtgc 1020
ggctccggga gagcatcgtc ctccatggag ccactttgca ggagcacacg tgtgttctgc 1080
atagcatcgt gggctggggg agcaccgtgg gacgctgggc ccgctggag ggtaccccca 1140
gtgaccctaa cccaacgat ccccgagccc gcatggacag tgagagcctc ttcaaggacg 1200
ggaagctgct gcctgctatc accatcctgg gctgccgagt ccggatccct gccgaggtgc 1260
tcatcctgaa ctcgattgtt ctgccacaca aggagctgag ccgaagcttc accaaccaga 1320
tcatcctctg agtagggctg ccagaaggcc ccagctcct acccactccc cttgaggctg 1380
ctgcctgctt ggccagcctc tgtccagaaa ggaccagaga aagccaggct ggatcgtcac 1440
atgccgggga gcaatgtgga tggcctgggg actcctgggt ttctccctc ccgactccct 1500
aataaacccc gtgaaccttg                                     1520

```

<210> 10729  
 <211> 420  
 <212> PRT  
 <213> Homo sapiens

<400> 10729

Met	Leu	Lys	Ala	Val	Ile	Leu	Ile	Gly	Gly	Pro	Gln	Lys	Gly	Thr	Arg
1				5				10					15		
Phe	Arg	Pro	Leu	Ser	Phe	Glu	Val	Pro	Lys	Pro	Leu	Phe	Pro	Val	Ala
			20					25					30		
Gly	Val	Pro	Met	Ile	Gln	His	His	Ile	Glu	Ala	Cys	Ala	Gln	Val	Pro
			35				40					45			
Gly	Met	Gln	Glu	Ile	Leu	Leu	Ile	Gly	Phe	Tyr	Gln	Pro	Asp	Glu	Pro
	50				55						60				
Leu	Thr	Gln	Phe	Leu	Glu	Ala	Ala	Gln	Gln	Glu	Phe	Asn	Leu	Pro	Val
	65				70					75				80	
Arg	Tyr	Leu	Gln	Glu	Phe	Ala	Pro	Leu	Gly	Thr	Gly	Gly	Gly	Leu	Tyr
			85						90					95	
His	Phe	Arg	Asp	Gln	Ile	Leu	Ala	Gly	Ser	Pro	Glu	Ala	Phe	Phe	Val
			100					105					110		
Leu	Asn	Ala	Asp	Val	Tyr	Ser	Asp	Phe	Pro	Leu	Ser	Ala	Met	Leu	Glu
	115						120					125			
Ala	His	Arg	Arg	Gln	Arg	His	Pro	Phe	Leu	Leu	Leu	Gly	Thr	Thr	Ala
	130					135					140				
Asn	Arg	Thr	Gln	Ser	Leu	Asn	Tyr	Gly	Cys	Ile	Val	Glu	Asn	Pro	Gln

000240 69462360



-4210/13211-

145 150 155 160  
Thr His Glu Val Leu His Tyr Val Glu Lys Pro Ser Thr Phe Ile Ser  
165 170 175  
Asp Ile Ile Asn Cys Gly Ile Tyr Leu Phe Ser Pro Glu Ala Leu Lys  
180 185 190  
Pro Leu Arg Asp Val Phe Gln Arg Asn Gln Gln Asp Gly Gln Leu Glu  
195 200 205  
Asp Ser Pro Gly Leu Trp Pro Gly Ala Gly Thr Ile Arg Leu Glu Gln  
210 215 220  
Asp Val Phe Ser Ala Leu Ala Gly Gln Gly Gln Ile Tyr Val His Leu  
225 230 235 240  
Thr Asp Gly Ile Trp Ser Gln Ile Lys Ser Ala Gly Ser Ala Leu Tyr  
245 250 255  
Ala Ser Arg Leu Tyr Leu Ser Arg Tyr Gln Asp Thr His Pro Glu Arg  
260 265 270  
Leu Ala Lys His Thr Pro Gly Gly Pro Trp Ile Arg Gly Asn Val Tyr  
275 280 285  
Ile His Pro Thr Ala Lys Val Ala Pro Ser Ala Val Leu Gly Pro Asn  
290 295 300  
Val Ser Ile Gly Lys Gly Val Thr Val Gly Glu Gly Val Arg Leu Arg  
305 310 315 320  
Glu Ser Ile Val Leu His Gly Ala Thr Leu Gln Glu His Thr Cys Val  
325 330 335  
Leu His Ser Ile Val Gly Trp Gly Ser Thr Val Gly Arg Trp Ala Arg  
340 345 350  
Val Glu Gly Thr Pro Ser Asp Pro Asn Pro Asn Asp Pro Arg Ala Arg  
355 360 365  
Met Asp Ser Glu Ser Leu Phe Lys Asp Gly Lys Leu Leu Pro Ala Ile  
370 375 380  
Thr Ile Leu Gly Cys Arg Val Arg Ile Pro Ala Glu Val Leu Ile Leu  
385 390 395 400  
Asn Ser Ile Val Leu Pro His Lys Glu Leu Ser Arg Ser Phe Thr Asn  
405 410 415  
Gln Ile Ile Leu  
420

<210> 10730

<211> 1583

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (225)..(1121)

<400> 10730

acaccaagct gaagcggctg gagatcacgc cgggtggtgtg caatgtggaa caagttcgca 60

009270.69462960

```

tcttgagggg actgggcgcc atccagccag gaggtaaccg ctgcaaactc atctccagga 120
aggacttcga gacctctac aatgactgca ccaacgcaag ttctagacct ggaaggcctc 180
ctaagaggac tcaaagtgtc acctccccag agaactctca catcatgccg cattctgtcc 240
ctggtctcat gtctcctggg ataattccac caacaggtct gacagcagcc gctgcagcag 300
ctgctgctgc taccaatgca gctattgctg aagcaatgaa ggtgaaaaaa atcaaattag 360
aagccatgag caactatcat gccagtaata accaactatg agcagactct gaaaacgggg 420
acatgaattc aagtgtcgga ctggaacttc cttttatgat gatgccccac cctctaattc 480
ctgtcagcct acctccagca tctgtcacca tggcaatgag ccagatgaac cacctcagca 540
ccattgcaaa tatggcagca gcagcacaag ttcagagtcc cccatccaga gttgagacat 600
cagttattaa ggagcgtgtt cctgatagcc cctcacctgc cccctctctg gaggagggga 660
gaaggcctgg cagtcacca tcatcacatc goagcagcag cgtgtccagc tcccctgctc 720
ggactgagag ctcttctgac agaatcccgg tccatcagaa tgggttgtcc atgaaccaga 780
tgctgatggg cttatcacca aatgtacttc ctgggcccac agaggggagat ttggccggtc 840
atgacatggg acatgagtca aaaaggggtgc atattgaaaa agatgagacc ccgctttcta 900
caccaaccgc aagagacagc cttgacaaaac tctctotaac tgggcatgga caaccactgc 960
ctccaggttt tccatctcct tttctgtttc ctgatggact gtcttccatc gagactcttc 1020
tgactaacat acaggggctg ttgaaagttg ccatagataa tgccagagct caagagaaac 1080
aggtccaact ggaaaaaact gagctgaaga tggatttttt ttaagggaaa gagaactaag 1140
ggaaacactt gagaagcagt tggctatgga acaaaagaat agagccatag ttcaaaagag 1200
gctaaagaag gagaagaagg caaagagaaa attgcaggaa gcacttgagt ttgagacgaa 1260
acggcgtgaa caagcagaac agacgctaaa acaggcagct tcaacagata gtctcagggt 1320
cttaaatgac tctctgaccc cagagataga ggctgaccgc agtggcggca gaacagatgc 1380
tgaaaggaca atacaagatg gaagactgta tttgaaaact actgtcatgt actgaatctt 1440
tctgttgaa gaaatccatg ttatagaaaa gaactttgca gtcagacatt cgtcatggga 1500
aagttcagaa aaaaataaag tccttttaag ggaacttcct gaattttgtg tattaatgtt 1560
ctttaaaggt ttaagtattc tac                                     1583

```

<210> 10731  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<400> 10731  
 Met Pro His Ser Val Pro Gly Leu Met Ser Pro Gly Ile Ile Pro Pro  
 1 5 10 15  
 Thr Gly Leu Thr Ala Ala Ala Ala Ala Ala Ala Ala Thr Asn Ala  
 20 25 30  
 Ala Ile Ala Glu Ala Met Lys Val Lys Lys Ile Lys Leu Glu Ala Met  
 35 40 45  
 Ser Asn Tyr His Ala Ser Asn Asn Gln His Gly Ala Asp Ser Glu Asn  
 50 55 60  
 Gly Asp Met Asn Ser Ser Val Gly Leu Glu Leu Pro Phe Met Met Met  
 65 70 75 80  
 Pro His Pro Leu Ile Pro Val Ser Leu Pro Pro Ala Ser Val Thr Met  
 85 90 95  
 Ala Met Ser Gln Met Asn His Leu Ser Thr Ile Ala Asn Met Ala Ala  
 100 105 110

09629469.072800

-4212/13211-

Ala	Ala	Gln	Val	Gln	Ser	Pro	Pro	Ser	Arg	Val	Glu	Thr	Ser	Val	Ile
	115						120					125			
Lys	Glu	Arg	Val	Pro	Asp	Ser	Pro	Ser	Pro	Ala	Pro	Ser	Leu	Glu	Glu
	130					135					140				
Gly	Arg	Arg	Pro	Gly	Ser	His	Pro	Ser	Ser	His	Arg	Ser	Ser	Ser	Val
145					150					155					160
Ser	Ser	Ser	Pro	Ala	Arg	Thr	Glu	Ser	Ser	Ser	Asp	Arg	Ile	Pro	Val
				165					170					175	
His	Gln	Asn	Gly	Leu	Ser	Met	Asn	Gln	Met	Leu	Met	Gly	Leu	Ser	Pro
			180					185					190		
Asn	Val	Leu	Pro	Gly	Pro	Lys	Glu	Gly	Asp	Leu	Ala	Gly	His	Asp	Met
	195						200					205			
Gly	His	Glu	Ser	Lys	Arg	Val	His	Ile	Glu	Lys	Asp	Glu	Thr	Pro	Leu
	210					215						220			
Ser	Thr	Pro	Thr	Ala	Arg	Asp	Ser	Leu	Asp	Lys	Leu	Ser	Leu	Thr	Gly
225					230					235					240
His	Gly	Gln	Pro	Leu	Pro	Pro	Gly	Phe	Pro	Ser	Pro	Phe	Leu	Phe	Pro
				245					250					255	
Asp	Gly	Leu	Ser	Ser	Ile	Glu	Thr	Leu	Leu	Thr	Asn	Ile	Gln	Gly	Leu
			260					265					270		
Leu	Lys	Val	Ala	Ile	Asp	Asn	Ala	Arg	Ala	Gln	Glu	Lys	Gln	Val	Gln
	275						280					285			
Leu	Glu	Lys	Thr	Glu	Leu	Lys	Met	Asp	Phe	Phe					
	290					295									

<210> 10732  
 <211> 1818  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (79).. (471)

<400> 10732  
 cctcctgaaa atgaaaagaa ggtagaggaa gatattatca cagagcttgc tcttggagaa 60  
 gatgctatat ctagcagtat ggaaattgac caagggtgaaa agaatagaaga tgaaacttct 120  
 gcagatcttg tagaaacgat taatgaaaat gttattgaag ataacaaaag tgagaatatc 180  
 ttgaaaaata cagactctat ggagacagat gaaatcattc ctatttttga aaagcttgca 240  
 ccttctgagg atgaacttac ttgcttttct aaaacatctc tccttccaat cgatgagaca 300  
 aatccagatt tggaagagaa aatggaaagt tcttttggtt caccatctaa acaagaaaagt 360  
 agtgagagtt tgccaaaaga agcctttctg gtctctctct atgaagagga tatttcgggt 420  
 gaaaaagatg agtctgaagt tatatcgcaa aatgaaacgt gctctccagg ttagcatata 480  
 acttaaatgt taaagatttt ttattgactt tgatgaactg ttttaataaaa cattatcata 540  
 atgttttaaa tttatttttag ctgcagagaa agttgagaat agtgatgact ctatagaaaag 600  
 atgtcttaac ttcatagaat tcagaattag tgtgtgtact ctgtgagtag cattgtacta 660  
 aatactaaga agggagataa aataagtaga aaatatgccc ttatagtctg gaaatagaga 720

09629469.072800

```

tgaagtagag caccataaca ctgagataac agcttaagtt agtacataat tgactagagt 780
tgtagcagtt ctttcttgct atcacttagc gaacaaataa cttagaacta aaagcctaata 840
agtttaaatct atttgcttca agtgtaacaa attatatattt caattaatat tcccaatgaa 900
atcctgtttct ttaatatctt ttgtccagga atgacagcac cattgttgta agccagaaac 960
cttaaagctt gattatccat ttgataaaga ctttaccat ttgctccctc agcccttttg 1020
attctaccca gcctattctc ttccccattt tctgaatgag ctccctgtaa cccaattctc 1080
ttatttgata ttgtccgtct atgtcttaga tctctgttac ttttaggttg atttcaaact 1140
ccttatgtaa aagggtacatt aactttatgg tttgttcagt acctatctct cccatctctt 1200
ttattttatt tattattcct agagaaaaag aatgagaaaa attctacctt cttttatggg 1260
caaaactgaaa aacattattc ctctatgaaa ctttctaagc ctgtggaaga ctgagaaaag 1320
catgaatacc tttcttttcc cattatatca cattctttta gatttagaca tctctgagag 1380
aagtgcactt gctagcataa aacaccatct aatttcttca aagaaaaaaa aatggaggca 1440
ggctctaagag acagagacaa cttttttccc caatatatca taccagcttt tggaggtaga 1500
gatttttttc ttattaaaaa atggcttttt tttttttttg gccaggtaag gtggctcaca 1560
cctataatcc taggactttg ggaggctgag gcaggcagat tgcttgagct caggagtctg 1620
agaccagcct gggcaacatg gtgagacccc gtctctacaa aagtacaaaa attagccagg 1680
cgtggtggca cttgtctgta gtccagggtg cttgagggcc tgaggtaggg ggatcacttg 1740
aacctgggtg gtcgaggctg cagtgcgccc agatcgcgcc actactccag cctgggtgac 1800
aaagtaagac cctgcctc 1818

```

<210> 10733  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 10733

Met	Glu	Ile	Asp	Gln	Gly	Glu	Lys	Asn	Glu	Asp	Glu	Thr	Ser	Ala	Asp
1				5					10					15	
Leu	Val	Glu	Thr	Ile	Asn	Glu	Asn	Val	Ile	Glu	Asp	Asn	Lys	Ser	Glu
			20					25					30		
Asn	Ile	Leu	Glu	Asn	Thr	Asp	Ser	Met	Glu	Thr	Asp	Glu	Ile	Ile	Pro
		35					40				45				
Ile	Leu	Glu	Lys	Leu	Ala	Pro	Ser	Glu	Asp	Glu	Leu	Thr	Cys	Phe	Ser
	50				55					60					
Lys	Thr	Ser	Leu	Leu	Pro	Ile	Asp	Glu	Thr	Asn	Pro	Asp	Leu	Glu	Glu
65					70				75					80	
Lys	Met	Glu	Ser	Ser	Phe	Gly	Ser	Pro	Ser	Lys	Gln	Glu	Ser	Ser	Glu
			85					90						95	
Ser	Leu	Pro	Lys	Glu	Ala	Phe	Leu	Val	Leu	Ser	Asp	Glu	Glu	Asp	Ile
		100						105				110			
Ser	Gly	Glu	Lys	Asp	Glu	Ser	Glu	Val	Ile	Ser	Gln	Asn	Glu	Thr	Cys
	115						120				125				
Ser	Pro	Gly													
	130														

<210> 10734

<211> 1593  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (52).. (549)

<400> 10734

```

aaggcgcgga agcggcggtg gctgcagctg gccaagttag ggcactggcg gatgcaggcc 60
ttgcggcacg tcgtgtgcgc cctgtccggc ggctgggaca gcgcctggcg cgcgtgctg 120
ctgaggcgga gaggttacca ggtgacaggg gtgtttatga agaactggga ctcaactggat 180
gaacatgggg tctgtactgc cgacaaagac tgtgaagatg cttacagagt ttgccagatc 240
ttagacatcc ctttccatca agtgtcctac gtaaaggagt attggaatga tgtgttcagt 300
gactttttga atgagtatga aaaaggaagg actcccaatc ctgacatagt ttgcaacaag 360
cacatcaaat ttagttgctt ttttcattat gctgtggata atcttggggc agatgccatt 420
gccacaggtc actatgcaag aacttccttg gaagatgaag aagtccttga gcagaagcac 480
gttaagaagc ccgaagggtc tttcagaaat cggtttgaag ttagaaatgc caggtttccc 540
aggatgccct gaggagaacc atcttccttc tggggggatt aacgaaagag tttgtaaaga 600
aaatcgctgc tgagaataga cttcatcatg tgcttcagaa gaaagagagc atgggcatgt 660
gtttcatcgg gaagaggaat tttgaacatt tcttcttcca gtatctgcag cctcgacctg 720
gtcactttat ttccatagaa gacaataagg ttctgggaac acataaaggt tggttcctgt 780
ataccttggg ccagagagca aacatagggt gctgagaga gccctggtag gtggtggaga 840
aggacagcgt caagggtgac gtgtttgttg cccccggac agaccacca gccctgtaca 900
gggacctgct gaggaccagc cgcgtgcact ggattgcgga ggagcctccc gcagcactgg 960
tccgggacaa gatgatggag tgccacttcc gattccgcca ccagatggca ctagtgccct 1020
gtgtgctgac cctcaatcaa gatggcaccg tgtgggtgac agctgtgcag gctgtgcgtg 1080
cccttgccac aggacagttt gctgtgttct acaaggggga cgagtgcctg ggcagcggga 1140
agatcctgcg gctggggccg tctgcctaca cgctccagaa gggccagcgc agagctggga 1200
tggccactga gagccccagt gacagcccag aagatggtcc aggcctgagt cccttgctct 1260
gacagagatg gatctgctag aaggaacctg gagagcagga cccatggctg ggcggctggt 1320
gagcagtcca ggtgcccacg gccagcttg ctgctgcccc aagcagagga agccgggctg 1380
gctgagggtc cggaaagcct gcaggggccc ggcgagcccc aggaagagcc tcagctccag 1440
gctggggctc tggctgctgg agcatctgct ggctgggtgg gtggcccgag ttcccttca 1500
ccgccccag ggagggttcc ccacctcaga gtacaccgag gggacctgca gagggggctg 1560
tcgggacagc gtggaataaa cattatttca agg
1593

```

<210> 10735  
<211> 166  
<212> PRT  
<213> Homo sapiens

<400> 10735

```

Met Gln Ala Leu Arg His Val Val Cys Ala Leu Ser Gly Gly Val Asp
  1           5           10           15
Ser Ala Val Ala Ala Leu Leu Leu Arg Arg Arg Gly Tyr Gln Val Thr
          20           25           30

```

09629459.072300

-4215/13211-

Gly Val Phe Met Lys Asn Trp Asp Ser Leu Asp Glu His Gly Val Cys  
35 40 45  
Thr Ala Asp Lys Asp Cys Glu Asp Ala Tyr Arg Val Cys Gln Ile Leu  
50 55 60  
Asp Ile Pro Phe His Gln Val Ser Tyr Val Lys Glu Tyr Trp Asn Asp  
65 70 75 80  
Val Phe Ser Asp Phe Leu Asn Glu Tyr Glu Lys Gly Arg Thr Pro Asn  
85 90 95  
Pro Asp Ile Val Cys Asn Lys His Ile Lys Phe Ser Cys Phe Phe His  
100 105 110  
Tyr Ala Val Asp Asn Leu Gly Ala Asp Ala Ile Ala Thr Gly His Tyr  
115 120 125  
Ala Arg Thr Ser Leu Glu Asp Glu Glu Val Leu Glu Gln Lys His Val  
130 135 140  
Lys Lys Pro Glu Gly Leu Phe Arg Asn Arg Phe Glu Val Arg Asn Ala  
145 150 155 160  
Arg Phe Pro Arg Met Pro  
165

<210> 10736  
<211> 2008  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (21).. (503)

<400> 10736  
accacgctg cgggcaagcc atggcgggaa gcgagccgcg cagcgggaaca aactcgccgc 60  
cgccgccctt cagcgactgg ggccgcctgg aggcggccat cctcagcggc tggaagacct 120  
tctggcagtc agtgagcaag gagagggtgg cgcgtacgac ctacagggag gaggtggatg 180  
aggcggccag caccctgacg cggctgccgg tgagcgtcgg ccgcaggccg cggaggacag 240  
tggggcccgc ccgggcccga gggacctccc ctggagcccc ccggggcctg gggaaactctc 300  
gcgccccggc ctgggtctgg ctccgtccat gcagccattc ctggcagtgt agtcaccgag 360  
aagctacagt tgatcagaag cgtcttggcg tggaccctgg tgotcgcag gggggccgaa 420  
catctcaggg aagcaccttc atggggcccc tggggaccct ccgatcgcc ctacaggtttt 480  
ccaccgcca aaacaggcac atgtgactag gacaccctga atgtccggtt acggaaatga 540  
gacagttccc aacttgctga ttagcttggg aaagcattcc agcgtccctg ttcccagcgt 600  
ctttgattcc ggatcactgt accaaaacac ttggaggggc aaggttttta ccctctcaag 660  
aggacattgt gcctgtggct gttattgtgt atttgaagaa acaaaacggc ccctcagttg 720  
aaaataaatg acttaagtta caagtgcctc aagttacatc aaggccacga gaatgacaca 780  
cataacttat tgtaaaactt tggggtagat aggtaaatga agagaacaaa aattattgaa 840  
aattattaca attctttgtc tcatttggac tattgacacc tctctccaat gtgtatatca 900  
acgtgaaagc tgcaggttta gaatgcctcc aagtttctcc ttgcagaggt ttttcataac 960  
attttaatag attctgtaga ggaactaaga tgacaaattt acggccggggc gcgggtggctc 1020  
acgcctgtaa tcccagcact ttgggagacc caggtgggcg gatcacgagg tcaggagatc 1080

09629469.072300

```

aagaccatcc tggctaacac ggtgaaaccc ogtctctact aaaaatataa aaaattagcc 1140
gggcttggtg gcaggcgctt gtagtcccag ctacttggga ggctgaggca ggagcatggc 1200
gtgaacctgg gagacggagc ttgcagttag cogagatott gccactgcac tccagcctgg 1260
gcgacagagc gagactgtgt ctcaaaaaag aaaaagacaa atgtacactc tttgatttgg 1320
tctgatgata aaatcagata aaggttgata tgggttttat tttgaaggac aaattatttc 1380
cttaactaat ttatgtaact aactggata tccaaatata tctgaggaaa aattaaagga 1440
actggtgatt ttgctggaaa aatagcaaga cagtggttgc tttttcagga atgtttcagg 1500
tgtttcagaa attaaatgtt taacaactac gaaactaaaa tgttcagtta tgatcctttg 1560
ctgatagcag gaaaataata gatttaatta ttaatggtag atttagttat taaaaaact 1620
agtcagttga ccttttgtaa tttatttggt gattatgtgg tttatcacc aaaaactatt 1680
ttcttcattc ctttttccta cctgctgctt tcttctgttt cagattgatg tacagctata 1740
tatittgtcc tttctttcac ctcatgatct gtgtcagttg ggaagtacaa atcattattg 1800
gaatgaaact gtaagagatc caattctgtg gagatacttt ttgttgaggg atcttccttc 1860
ttggtcttct gttgactgga agtctcttcc agatctagaa atcttaaaaa agcctatata 1920
tgaggtcact gatggtgcat tttttgacta catggcagtg taagtatcta gttttatgaa 1980
ttaaaaagaa gctattaaat tttcctgt 2008

```

<210> 10737  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 10737

Met	Ala	Gly	Ser	Glu	Pro	Arg	Ser	Gly	Thr	Asn	Ser	Pro	Pro	Pro	Pro
1				5				10					15		
Phe	Ser	Asp	Trp	Gly	Arg	Leu	Glu	Ala	Ala	Ile	Leu	Ser	Gly	Trp	Lys
			20					25					30		
Thr	Phe	Trp	Gln	Ser	Val	Ser	Lys	Glu	Arg	Val	Ala	Arg	Thr	Thr	Ser
			35				40					45			
Arg	Glu	Glu	Val	Asp	Glu	Ala	Ala	Ser	Thr	Leu	Thr	Arg	Leu	Pro	Val
			50			55					60				
Ser	Val	Gly	Arg	Arg	Pro	Arg	Arg	Thr	Val	Gly	Pro	Ala	Arg	Ala	Gly
					70					75					80
Gly	Thr	Ser	Pro	Gly	Ala	Pro	Arg	Gly	Leu	Gly	Asn	Ser	Arg	Ala	Pro
				85					90					95	
Ala	Trp	Val	Trp	Leu	Arg	Pro	Cys	Ser	His	Ser	Trp	Gln	Cys	Ser	His
			100					105					110		
Arg	Glu	Ala	Thr	Val	Asp	Gln	Lys	Arg	Leu	Gly	Val	Asp	Pro	Gly	Ala
			115				120					125			
Pro	Gln	Gly	Ala	Arg	Thr	Ser	Gln	Gly	Ser	Thr	Phe	Met	Gly	Pro	Leu
			130			135					140				
Gly	Thr	Leu	Pro	Ile	Ala	Leu	Arg	Phe	Ser	Thr	Arg	Gln	Asn	Arg	His
					150					155					160
Met															

<210> 10738  
 <211> 1834  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (61)..(1452)

<400> 10738

```
gcgagcaaca ggccgtgccg ggtttgcatt tccttactgc tttgtcttga agacagaacg 60
atgccaaaga aagcaaagcc tacagggagt gggaaggaag aggggccggc tccctgtaag 120
cagatgaagt tagaagcagc tggggggcct tcagctttaa actttgacag tcccagtagt 180
ctctttgaaa gtttaatctc gcccatcaag acagagactt ttttcaagga attctgggag 240
cagaagcccc ttctcattca gagagatgac cctgcactgg ccacatacta tgggtccctg 300
ttcaagctaa cagatctgaa gagtctgtgc agccggggga tgtactatgg aagagatgtg 360
aatgtctgcc ggtgtgtcaa tgggaagaag aaggttttaa ataaagatgg caaagcacac 420
ttcttcagc tgagaaaaga ttttgatcag aaaagggcaa cgattcagtt tcaccaacct 480
cagagattta aggatgagct ttggaggatc caggagaagc tggaatgta ctttagctcc 540
ttggttggct cgaatgtgta cataactccc gcaggatctc agggcctgcc gccccattat 600
gatgatgtcg aggttttcat cctgcagctg gagggagaga aacactggcg cctctaccac 660
cccactgtgc ccctggcacg agagtacagc gtggaggccg aggaaaggat cggcaggccg 720
gtgcatgagt ttatgctgaa gccgggtgat ttgttgact ttcccagagg aaccattcat 780
caagcggaca ctcttgcggg gctggcccac tcgactcacg tgaccatcag cacctaccag 840
aacaattcat ggggagattt ccttttggat accatctcgg ggcttgtatt tgatactgca 900
aaggaagacg tggagttaac gaccggcata ccccggcagc tgctcctggt ggaatccaca 960
actgttgcta caagacgatt aagtggcttc ctgaggacac ttgcagaccg gctggagggc 1020
accaaagaac tgctttcctc agacatgaag aaggatttta ttatgcacag actccccct 1080
tactctgcgg gagatggggc agagctgtca acaccagggt gaaagtacc gaggctggac 1140
agtgtagtga gactgcagtt taaagaccac attgtcctca cagtactgcc ggatcaagat 1200
caatctgatg aaactcaaga aaagatggtg tacatctatc attccttaaa gaatagtaga 1260
gagacacaca tgatgggaaa tgaggaggaa acagagtttc atggacttcg cttccctttg 1320
tcacatttgg atgcactgaa gcaaatttgg aatagtccag ctatttctgt caaggacctg 1380
aaacttacta cagatgagga aaaggaaagc ctgggtattat ccctctggac agaattgtta 1440
attcaagtag tctagtgcct ttgcagaatc aaatgcctac tattttatat gcatatatta 1500
aaagaaaagc aaagacctga gccgaggaga ggatgaattc aagtttcctt acctgcgtat 1560
ctactaacia acatgagacc tccctgttac aggtggtcag tcggccaaat gtactaacgg 1620
gcacatgaaa gaaagaacag caaattacca agtgtctcag aaaaatgacaa aaccatattt 1680
tgacaagttt atttaatcca gtgtggtaga aaaggcacia ttccaatgta tcatttagaa 1740
ttgaatgtca ttaacctggc tttgttcttt ggaagaaaca acttctttaa agagctgctt 1800
tggctctaga aaaatttcaa acaattaaaa taag 1834
```

<210> 10739  
 <211> 464  
 <212> PRT  
 <213> Homo sapiens

0969469.07800



<400> 10739

Met	Pro	Lys	Lys	Ala	Lys	Pro	Thr	Gly	Ser	Gly	Lys	Glu	Glu	Gly	Pro
1				5					10					15	
Ala	Pro	Cys	Lys	Gln	Met	Lys	Leu	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Ala
			20					25					30		
Leu	Asn	Phe	Asp	Ser	Pro	Ser	Ser	Leu	Phe	Glu	Ser	Leu	Ile	Ser	Pro
		35					40					45			
Ile	Lys	Thr	Glu	Thr	Phe	Phe	Lys	Glu	Phe	Trp	Glu	Gln	Lys	Pro	Leu
	50					55					60				
Leu	Ile	Gln	Arg	Asp	Asp	Pro	Ala	Leu	Ala	Thr	Tyr	Tyr	Gly	Ser	Leu
65					70					75					80
Phe	Lys	Leu	Thr	Asp	Leu	Lys	Ser	Leu	Cys	Ser	Arg	Gly	Met	Tyr	Tyr
				85					90					95	
Gly	Arg	Asp	Val	Asn	Val	Cys	Arg	Cys	Val	Asn	Gly	Lys	Lys	Lys	Val
			100					105					110		
Leu	Asn	Lys	Asp	Gly	Lys	Ala	His	Phe	Leu	Gln	Leu	Arg	Lys	Asp	Phe
	115						120					125			
Asp	Gln	Lys	Arg	Ala	Thr	Ile	Gln	Phe	His	Gln	Pro	Gln	Arg	Phe	Lys
	130					135					140				
Asp	Glu	Leu	Trp	Arg	Ile	Gln	Glu	Lys	Leu	Glu	Cys	Tyr	Phe	Ser	Ser
145					150					155					160
Leu	Val	Gly	Ser	Asn	Val	Tyr	Ile	Thr	Pro	Ala	Gly	Ser	Gln	Gly	Leu
				165					170					175	
Pro	Pro	His	Tyr	Asp	Asp	Val	Glu	Val	Phe	Ile	Leu	Gln	Leu	Glu	Gly
			180					185					190		
Glu	Lys	His	Trp	Arg	Leu	Tyr	His	Pro	Thr	Val	Pro	Leu	Ala	Arg	Glu
	195						200					205			
Tyr	Ser	Val	Glu	Ala	Glu	Glu	Arg	Ile	Gly	Arg	Pro	Val	His	Glu	Phe
	210					215					220				
Met	Leu	Lys	Pro	Gly	Asp	Leu	Leu	Tyr	Phe	Pro	Arg	Gly	Thr	Ile	His
225					230					235					240
Gln	Ala	Asp	Thr	Pro	Ala	Gly	Leu	Ala	His	Ser	Thr	His	Val	Thr	Ile
				245					250					255	
Ser	Thr	Tyr	Gln	Asn	Asn	Ser	Trp	Gly	Asp	Phe	Leu	Leu	Asp	Thr	Ile
			260					265					270		
Ser	Gly	Leu	Val	Phe	Asp	Thr	Ala	Lys	Glu	Asp	Val	Glu	Leu	Arg	Thr
	275						280					285			
Gly	Ile	Pro	Arg	Gln	Leu	Leu	Leu	Val	Glu	Ser	Thr	Thr	Val	Ala	Thr
	290					295					300				
Arg	Arg	Leu	Ser	Gly	Phe	Leu	Arg	Thr	Leu	Ala	Asp	Arg	Leu	Glu	Gly
305					310					315					320
Thr	Lys	Glu	Leu	Leu	Ser	Ser	Asp	Met	Lys	Lys	Asp	Phe	Ile	Met	His
				325					330					335	
Arg	Leu	Pro	Pro	Tyr	Ser	Ala	Gly	Asp	Gly	Ala	Glu	Leu	Ser	Thr	Pro
			340					345					350		
Gly	Gly	Lys	Leu	Pro	Arg	Leu	Asp	Ser	Val	Val	Arg	Leu	Gln	Phe	Lys
	355						360					365			
Asp	His	Ile	Val	Leu	Thr	Val	Leu	Pro	Asp	Gln	Asp	Gln	Ser	Asp	Glu

09629469.072800

370	375	380
Thr Gln Glu Lys Met Val Tyr Ile Tyr His Ser	Leu Lys Asn Ser Arg	
385	390	395
Glu Thr His Met Met Gly Asn Glu Glu Glu Thr	Glu Phe His Gly Leu	400
	405	410
Arg Phe Pro Leu Ser His Leu Asp Ala Leu Lys	Gln Ile Trp Asn Ser	415
	420	425
Pro Ala Ile Ser Val Lys Asp Leu Lys Leu Thr	Thr Asp Glu Glu Lys	430
	435	440
Glu Ser Leu Val Leu Ser Leu Trp Thr Glu Cys	Leu Ile Gln Val Val	445
450	455	460

<210> 10740  
 <211> 1499  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (6).. (641)

<400> 10740

tacacatgag	cctcctccgg	cagaaaatag	cccagctgga	ggaggagaag	caggcacgca	60
cggccttggt	ggttgagagg	gacaacgcgc	atcttaccat	caggaacttg	cagaagaagg	120
tggagaggct	gcagaaagag	ctgaacacgt	gtcgagactt	gcacaccgag	ctcaaagcca	180
aactggccga	caccaatgaa	ctgaagatta	aaactttgga	acagactaaa	gccattgaag	240
atctaaacaa	atccagagac	caactggaga	agatgaagga	gaaagctgag	aaaaagctca	300
tgtctatcaa	gtcagaactg	gataccacag	aacatgaggc	taaggagaat	aaagaaaggg	360
ccagaaacat	gatagaagtg	gtaaccagtg	aaatgaagac	actaaaaaaaa	tctctggaag	420
aagcagaaaa	gagagaaaag	cagctggcag	acttcaggga	ggtggtgtcg	cagatgctag	480
gottgaacgt	gaccagcctt	gctcttcctg	attatgaaat	catcaagtgt	cttgaaagat	540
tgatccattc	acatcagcat	cactttgtta	cctgtgcctg	cctcaaagat	gtgactactg	600
ggcaagagag	gcacccacaa	ggccatttac	agcttcttca	ttgaacactg	tatctcttga	660
gagaggtggc	cataagacat	ggcacacaat	tccaatttc	acaaattcct	cctgtctttg	720
agatttgatc	agtttgtgaa	tattttatgc	tttgatgata	tagtgagaat	gcatcacttg	780
caaaaacgat	ctcaaaagtg	tcagccttag	ataaacgttc	agcattaaaa	acgcctatta	840
tttcatttac	tagcatttta	ggatccagaa	gaattccacc	agattgcatg	agttagattg	900
ggaaatggga	gtgggagata	acattgggag	gtatctatit	taagtcaggg	gctttactag	960
ccgatttagt	tctcacataa	accatgtgga	gaagctgtga	catttttaat	ttacaacctt	1020
tctggggctc	agacataaag	ttacctatcc	aagggtgcag	ttgggtagtg	gtgggaccag	1080
gatggacaac	tcattggccc	tgccatcaaaa	gccatacctc	ttctcctgct	acgcagaatc	1140
tgtttctcct	gaatctctgt	gatgctggtg	ggaattgttt	gcatagagga	aggacaataa	1200
ccctgccatt	gtgagttaat	gtccgggctg	gtcatagtgg	ttcatgcctg	taatcccagc	1260
actttggggag	tccaaggcag	gcataatcatt	tgaggtcagg	agtttaagac	cagcctggct	1320
aacatagtga	gaccctgttt	ctactaaaaa	tacaaaaata	agccagggtg	ggtggtgcat	1380
gactgtaatc	ccaactactc	agcaggagaa	gcacttgaac	ccaggagacg	gaggcggcag	1440
tgagccaaga	ttgtgccact	gcactccagc	ctgggcgaca	gagtgaaact	acatctcag	1499

09629469.072800

<210> 10741  
 <211> 212  
 <212> PRT  
 <213> Homo sapiens

<400> 10741  
 Met Ser Leu Leu Arg Gln Lys Ile Ala Gln Leu Glu Glu Glu Lys Gln  
 1 5 10 15  
 Ala Arg Thr Ala Leu Val Val Glu Arg Asp Asn Ala His Leu Thr Ile  
 20 25 30  
 Arg Asn Leu Gln Lys Lys Val Glu Arg Leu Gln Lys Glu Leu Asn Thr  
 35 40 45  
 Cys Arg Asp Leu His Thr Glu Leu Lys Ala Lys Leu Ala Asp Thr Asn  
 50 55 60  
 Glu Leu Lys Ile Lys Thr Leu Glu Gln Thr Lys Ala Ile Glu Asp Leu  
 65 70 75 80  
 Asn Lys Ser Arg Asp Gln Leu Glu Lys Met Lys Glu Lys Ala Glu Lys  
 85 90 95  
 Lys Leu Met Ser Ile Lys Ser Glu Leu Asp Thr Thr Glu His Glu Ala  
 100 105 110  
 Lys Glu Asn Lys Glu Arg Ala Arg Asn Met Ile Glu Val Val Thr Ser  
 115 120 125  
 Glu Met Lys Thr Leu Lys Lys Ser Leu Glu Glu Ala Glu Lys Arg Glu  
 130 135 140  
 Lys Gln Leu Ala Asp Phe Arg Glu Val Val Ser Gln Met Leu Gly Leu  
 145 150 155 160  
 Asn Val Thr Ser Leu Ala Leu Pro Asp Tyr Glu Ile Ile Lys Cys Leu  
 165 170 175  
 Glu Arg Leu Ile His Ser His Gln His His Phe Val Thr Cys Ala Cys  
 180 185 190  
 Leu Lys Asp Val Thr Thr Gly Gln Glu Arg His Pro Gln Gly His Leu  
 195 200 205  
 Gln Leu Leu His  
 210

<210> 10742  
 <211> 2213  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (977).. (1864)

<400> 10742

09629469.072300

09629469-072800

```

attcctcgag cactgttggc ctactggaat cgagtcggcc ttgttggcct actgggcggc 60
gcttcctagt tcggctggtt cttctgtcgc cggcttcagc agcccgcgcc cgggcaggta 120
aggcattccc cgccttaatg cctcgggtcaa acgtcgtccg aggtccgctt ccaggcctcg 180
gcacctctgc cccaggggtg ctgggggtcgg ctgcggaacg gaaatctctt tatcatccgt 240
gagaaaagtt agagaggaag tgggttcctt tgacagagct tactccagaa gaaagacttg 300
ggtaggtccc cggtaatcaa gaagttcgtc ggccctgagg aagagcctga ggcttggagg 360
gacgtcaccg agctgttctg gggcgcagtc ggacctcaag tttctcacct ctcaggccct 420
ggattccgtg aaccgactg cgaatgaag tctcttttcc ccagaaccag gaagtcaggc 480
cagcacctga cagatgcctg tggcgccagc agctcgtga gcctccacac gattgtaatt 540
cgcttgtttc tccggcctcc aagcttcagc ggaattagaa agtggaggcg gcttatggga 600
tcagatgagt acattcgcag atgggggaaa aaagtgtacc tgtcagcttg gaagccagag 660
ggagacaaaag ggataaaaagc aaaccctgtc caggggcctg gagcagtatc tagcacaaaag 720
tagacactca gtaaatatatt ggaatagaag atgaacaaac ccataacacc atcaacatat 780
gtgcgctgcc tcaatgttgg actaattagg aagctgtcag attttattga tcctcaagaa 840
ggatggaaga agttagctgt agctattaaa aaaccatctg gtgatgatag atacaatcag 900
tttcacataa gatgctgttc ccaaaactgc taatacacta ccttctaaag aagctataac 960
agttcagcaa aaacagatgc ctttctgtga caaagacagg acattgatga cacctgtgca 1020
gaatcttgaa caaagctata tgccacctga ctctcaagt ccagaaaata aaagtttaga 1080
agttagtgat acacgttttc acagtttttc attttatgaa ttgaagaatg tcacaaataa 1140
ctttgatgaa cgaccattt ctgttgggtg taataaaatg ggagagggag gatttggagt 1200
tgtatataaa ggctacgtaa ataacacaac tgtggcagtg aagaagcttg cagcaatggg 1260
tgacattact actgaagaac tgaacacagc gtttgatcaa gaaataaaaag taatggcaaa 1320
gtgtcaacat gaaaacttag tagaactact tggtttctca agtgatggag atgacctctg 1380
cttagtatat gtttacatgc ctaacggttc attgctagac agactctctt gcttggatgg 1440
tactccacca ctttcttggc acatgagatg caagattgct caggggtgcag ctaatggcat 1500
caattttcta catgaaaatc atcatattca tagagatatt aaaagtcaa atatcttact 1560
ggatgaagct tttactgcta aaatatctga ctttggcctt gcacgggctt ctgagaagtt 1620
tgcccagaca gtcatgacta gcagaattgt gggaacaaca gcttatatgg caccagaagc 1680
tttgctgga gaaataacac ccaaactctga tatttacagc tttggtgtgg ttttactaga 1740
aataataact ggacttccag ctgtggatga acaccgtgaa cctcagttat tgctagatat 1800
taaagaagaa aaaaaaaaaa aaaaaggcca catgtgctcg agctgcaggt cgcggccgct 1860
agactagtct agagaaaaaa cctcccacac ctccccctga acctgaaaca taaaatgaat 1920
gcaattgttg ttgttaactt gtttattgca gottataatg gttacaaata aagcaatagc 1980
atcacaaatt tcacaaataa agcatttttt tcaactgcatt ctagttgtgg tttgtccaaa 2040
ctcatcaatg tatcttatca tgtctggatc cccgggtacc gagctcgaat taattcctct 2100
tccgcttcct cgctcactga ctgcctgcgc tcggctcgtt ggctgcggcg agcgggtatca 2160
gctcactcaa aggcggtaat acggttatcc acagaatcag gggataacgc agg 2213

```

<210> 10743  
 <211> 296  
 <212> PRT  
 <213> Homo sapiens

<400> 10743  
 Met Pro Phe Cys Asp Lys Asp Arg Thr Leu Met Thr Pro Val Gln Asn  
 1 5 10 15  
 Leu Glu Gln Ser Tyr Met Pro Pro Asp Ser Ser Ser Pro Glu Asn Lys

-4222/13211-

			20				25				30								
Ser	Leu	Glu	Val	Ser	Asp	Thr	Arg	Phe	His	Ser	Phe	Ser	Phe	Tyr	Glu				
		35					40					45							
Leu	Lys	Asn	Val	Thr	Asn	Asn	Phe	Asp	Glu	Arg	Pro	Ile	Ser	Val	Gly				
	50					55					60								
Gly	Asn	Lys	Met	Gly	Glu	Gly	Gly	Phe	Gly	Val	Val	Tyr	Lys	Gly	Tyr				
65					70					75					80				
Val	Asn	Asn	Thr	Thr	Val	Ala	Val	Lys	Lys	Leu	Ala	Ala	Met	Val	Asp				
				85					90					95					
Ile	Thr	Thr	Glu	Glu	Leu	Lys	Gln	Gln	Phe	Asp	Gln	Glu	Ile	Lys	Val				
			100					105					110						
Met	Ala	Lys	Cys	Gln	His	Glu	Asn	Leu	Val	Glu	Leu	Leu	Gly	Phe	Ser				
		115					120					125							
Ser	Asp	Gly	Asp	Asp	Leu	Cys	Leu	Val	Tyr	Val	Tyr	Met	Pro	Asn	Gly				
	130					135					140								
Ser	Leu	Leu	Asp	Arg	Leu	Ser	Cys	Leu	Asp	Gly	Thr	Pro	Pro	Leu	Ser				
145					150					155					160				
Trp	His	Met	Arg	Cys	Lys	Ile	Ala	Gln	Gly	Ala	Ala	Asn	Gly	Ile	Asn				
			165						170					175					
Phe	Leu	His	Glu	Asn	His	His	Ile	His	Arg	Asp	Ile	Lys	Ser	Ala	Asn				
			180					185					190						
Ile	Leu	Leu	Asp	Glu	Ala	Phe	Thr	Ala	Lys	Ile	Ser	Asp	Phe	Gly	Leu				
	195						200					205							
Ala	Arg	Ala	Ser	Glu	Lys	Phe	Ala	Gln	Thr	Val	Met	Thr	Ser	Arg	Ile				
	210					215					220								
Val	Gly	Thr	Thr	Ala	Tyr	Met	Ala	Pro	Glu	Ala	Leu	Arg	Gly	Glu	Ile				
225					230					235					240				
Thr	Pro	Lys	Ser	Asp	Ile	Tyr	Ser	Phe	Gly	Val	Val	Leu	Leu	Glu	Ile				
			245						250					255					
Ile	Thr	Gly	Leu	Pro	Ala	Val	Asp	Glu	His	Arg	Glu	Pro	Gln	Leu	Leu				
			260				265						270						
Leu	Asp	Ile	Lys	Glu	Glu	Lys	Lys	Lys	Lys	Lys	Gly	His	Met	Cys	Ser				
	275					280						285							
Ser	Cys	Arg	Ser	Arg	Pro	Leu	Asp												
	290					295													

<210> 10744

<211> 1601

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (208).. (1119)

<400> 10744

cctttgcgcg ccgggttaat gggcggtaat ttggtaccot tgggtgcact ttgttttgcc 60

09629459.072800

```

cctgttcatt tgaatgcaaa tgggtgaccc gggcccgact aggtgcttat taaattgcag 120
ttttccccc tgctttttcc ggaatgcaga cttagaggag agaggctgcg ccctggccca 180
gcctggctcg gctcagctcc gcgcgccatg gcaagctcgg cttccctgga gaccatggtg 240
cccccgccct gcccgcgcg gcgagcgttg ccggccactt ccaagacact ggccttttcc 300
atcgagcgca tcatggccaa gacgtcggag ccccgtcgc ctttgagcc ccggcctgga 360
gcgctagagg cggacggcag ccagggcaag aaactgctca acctctgctc gccgctgcc 420
tgtatgatcc ccctccagcc cctaggctac gaggtgccgt caaagacact gctcagttac 480
tcggagctct ggaaaagcag cctccgggcg ggccggcgcg gaggcggcgg ccggcgtggc 540
ggcggcgcg gcgggggggc ccagtgctgc ggcccgagcg gcttggtgcaa aaccaactgt 600
ggcgtgtgct gcaaggccga gctgggcctg gcgcgctcgc cgctgcccgc gggcagggtc 660
atcaagccgc aggtcatcaa ccaggtctg gggctgcgg ccagcggtc gctctactac 720
ttcaactacc tggactcgac cgcgtaccgc ccgtctgagc tcctcagcgg ccacctcttc 780
ccgtctggcc tcctcaatgc gcaggccccc gccgccctgg ctgctcacc caagctcttt 840
ctgctggaga acgccaagct ggccggcctg gctgcggaca agttccccc cccggctccc 900
tatcccata aggagcgctt gccggcgccg ctggagcagg tactgaagga aaactcggcc 960
ctgactgcc agcgcgagg cgtcaagggc cacagcaagc tgccaggagg ctccgcagat 1020
ggcaagccca aaaacttcac ctgcgaggtg tgccgcaagg tgtttaacgc tcaactaat 1080
ctcaccgcc acttgcgga aagggtttt cagaaacttt gacttaaaga aacatgtgcg 1140
caaactccac gacagcgtgg gccctgctgc cccctccgca aaggacctga ctaggacagt 1200
gcagagctga gagctactgc cttgcccttc cttccctccc tgtaccacct gaaaacagat 1260
cacacatata aacttatttc taaaattaaa agaaaaaaaa actatagcag agaggctaaa 1320
atctatttat cgaaaccagc atatttttgg aaagctaaat gtttcctcga tgactggcag 1380
caaactcgtg gccccacct ttgtatattc aggaaactta tttaaatcca gtgcgccgaa 1440
acgtatttaa ttccaggcct ccgcttctcc tggggcagcc agttttaacc ccagcctgtc 1500
accgtgagcg cccagaaga gcgcggcgcc cctagccatc tttatacagc catgtaaatc 1560
ctcctgtaca agcgaacacg gaatatatac atatataact c 1601

```

<210> 10745  
 <211> 304  
 <212> PRT  
 <213> Homo sapiens

<400> 10745  
 Met Ala Ser Ser Ala Ser Leu Glu Thr Met Val Pro Pro Ala Cys Pro  
 1 5 10 15  
 Arg Ala Gly Ala Leu Pro Ala Thr Ser Lys Thr Leu Ala Phe Ser Ile  
 20 25 30  
 Glu Arg Ile Met Ala Lys Thr Ser Glu Pro Arg Ala Pro Phe Glu Pro  
 35 40 45  
 Arg Pro Gly Ala Leu Glu Ala Asp Gly Ser Gln Gly Lys Lys Leu Leu  
 50 55 60  
 Asn Leu Cys Ser Pro Leu Pro Cys Met Ile Pro Leu Gln Pro Leu Gly  
 65 70 75 80  
 Tyr Glu Val Pro Ser Lys Thr Leu Leu Ser Tyr Ser Glu Leu Trp Lys  
 85 90 95  
 Ser Ser Leu Arg Ala Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
 100 105 110

09629469.072800

Gly	Gly	Gly	Gly	Gly	Ala	Pro	Val	Cys	Gly	Ala	Ser	Gly	Leu	Cys	Lys
		115					120					125			
Thr	Asn	Cys	Gly	Val	Cys	Cys	Lys	Ala	Glu	Leu	Gly	Leu	Ala	Pro	Ser
		130				135					140				
Ala	Leu	Pro	Ala	Gly	Arg	Val	Ile	Lys	Pro	Gln	Val	Ile	Asn	Gln	Ala
145					150					155					160
Val	Gly	Leu	Pro	Ala	Ser	Gly	Ser	Leu	Tyr	Tyr	Phe	Asn	Tyr	Leu	Asp
				165					170					175	
Ser	Thr	Ala	Tyr	Pro	Pro	Ser	Glu	Leu	Leu	Ser	Gly	His	Leu	Phe	Pro
		180					185						190		
Ser	Gly	Leu	Leu	Asn	Ala	Gln	Ala	Pro	Ala	Ala	Leu	Ala	Ala	His	Pro
		195					200				205				
Lys	Leu	Phe	Leu	Leu	Glu	Asn	Ala	Lys	Leu	Ala	Gly	Leu	Ala	Ala	Asp
		210				215					220				
Lys	Phe	Pro	His	Pro	Ala	Pro	Tyr	Pro	His	Lys	Glu	Arg	Leu	Pro	Ala
225					230					235					240
Pro	Leu	Glu	Gln	Val	Leu	Lys	Glu	Asn	Ser	Ala	Leu	Thr	Ala	Glu	Arg
				245					250					255	
Gly	Gly	Val	Lys	Gly	His	Ser	Lys	Leu	Pro	Gly	Gly	Ser	Ala	Asp	Gly
		260					265						270		
Lys	Pro	Lys	Asn	Phe	Thr	Cys	Glu	Val	Cys	Gly	Lys	Val	Phe	Asn	Ala
		275					280					285			
His	Tyr	Asn	Leu	Thr	Arg	His	Leu	Arg	Gln	Arg	Val	Leu	Gln	Lys	Leu
		290				295					300				

<210> 10746  
 <211> 1694  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (143).. (1546)

<400> 10746  
 agcagagggga acaggggaaga aacctaagg ctgcaggctg ccagggtgtgc ttggagagcc 60  
 cccttcttcc gccgggcctc gcaagcagcg taggactgtg gagaagggcg gtgggcaagg 120  
 agggaaactcg agagcagcct ccatgggcac acaggagggc tgggtgcctgc tgctctgcct 180  
 ggctctatct ggagcagcag aaaccaagcc ccaccagca gaggggcagt ggcgggcagt 240  
 ggacgtggtc ctagactgct tcctggcgaa ggacgggtgcg caccgtggag ctctcgccag 300  
 cagtgaggac agggcaaggg cctcccttgt gctgaagcag gtgccagtgc tggacgatgg 360  
 ctccctggag gacttcaccg atttccaagg gggcacactg gccaagatg acccacctat 420  
 tatctttgag gcctcagtgg acctggtcca gattccccag gccgaggcct tgctccatgc 480  
 tgactgcagt gggaaggagg tgacctgtga gatctccgcg tactttctcc agatgacaga 540  
 gaccactgtt aagacagcag cttggttcat ggccaacgtg cagggtctctg gacggggacc 600  
 tagcatctcc ttggtgatga agactcccag ggtcgccaag aatgaggcgc tctggcacc 660  
 gacgtgaac ttgccactga gccccaggg gactgtgcga actgcagtgg agttccaggt 720

009220.69462360

gatgacacag acccaatccc tgagcttcct gctgggggtcc tcagcctcct tggactgtgg 780  
 cttctccatg gcaccgggct tggacctcat cagtgtggag tggcgactgc agcacaaggg 840  
 caggggtcag ttggtgtaca gctggaccgc agggcagggg caggctgtgc ggaagggcgc 900  
 taccctggag cctgcacaac tgggcatggc cagggatgcc tccctcacc tgcccggcct 960  
 cactatacag gacgagggga cctacatttg ccagatcacc acctctctgt accgagctca 1020  
 gcagatcatc cagctcaaca tccaagcttc ccctaaagta cgactgagct tggcaaacga 1080  
 agctctgctg cccaccctca tctgcgacat tgcctggctat taccctctgg atgtggtggt 1140  
 gacgtggacc cgagaggagc tgggtggatc ccagcccaa gtctctggtg cctccttctc 1200  
 cagcctcagg caaagcgtgg caggcaccta cagcatctcc tcctctctca ccgcagaacc 1260  
 tggctctgca ggtgccactt acacctgcca ggctcacacac atctctctgg aggagcccct 1320  
 tggggccagc acccaggttg tcccaccaga gcggagaaca gccttggggag tcattcttgc 1380  
 cagcagcttc ttcttcttg cactgatgtt cctggggctt cagagacggc aagcacctac 1440  
 aggacttggg ctgcttcagg ctgaacgctg ggagaccact tcctgtgctg acacacagag 1500  
 ctcccatctc catgaagacc gcacagcgcg tgtaagccag ccagctgac ctaaagcgac 1560  
 atgagactac tagaaagaaa cgacaccctt cccaagccc ccacagctac tccaacccaa 1620  
 acaacaacca agccagttta atggtaggaa tttgtatttt ttgcctttgt tcagaatata 1680  
 tgacattggt aaat 1694

<210> 10747  
 <211> 468  
 <212> PRT  
 <213> Homo sapiens

<400> 10747  
 Met Gly Thr Gln Glu Gly Trp Cys Leu Leu Leu Cys Leu Ala Leu Ser  
 1 5 10 15  
 Gly Ala Ala Glu Thr Lys Pro His Pro Ala Glu Gly Gln Trp Arg Ala  
 20 25 30  
 Val Asp Val Val Leu Asp Cys Phe Leu Ala Lys Asp Gly Ala His Arg  
 35 40 45  
 Gly Ala Leu Ala Ser Ser Glu Asp Arg Ala Arg Ala Ser Leu Val Leu  
 50 55 60  
 Lys Gln Val Pro Val Leu Asp Asp Gly Ser Leu Glu Asp Phe Thr Asp  
 65 70 75 80  
 Phe Gln Gly Gly Thr Leu Ala Gln Asp Asp Pro Pro Ile Ile Phe Glu  
 85 90 95  
 Ala Ser Val Asp Leu Val Gln Ile Pro Gln Ala Glu Ala Leu Leu His  
 100 105 110  
 Ala Asp Cys Ser Gly Lys Glu Val Thr Cys Glu Ile Ser Arg Tyr Phe  
 115 120 125  
 Leu Gln Met Thr Glu Thr Thr Val Lys Thr Ala Ala Trp Phe Met Ala  
 130 135 140  
 Asn Val Gln Val Ser Gly Arg Gly Pro Ser Ile Ser Leu Val Met Lys  
 145 150 155 160  
 Thr Pro Arg Val Ala Lys Asn Glu Ala Leu Trp His Pro Thr Leu Asn  
 165 170 175  
 Leu Pro Leu Ser Pro Gln Gly Thr Val Arg Thr Ala Val Glu Phe Gln





<400> 10748

agtgctagct cgccgoggcc gcctccgggg accacctggc ttcattgtgtg gatttccacg 60  
gctcttgccc agaggcgggt acactgtgtt ccaatgtgcc acggaactca cgcagtggca 120  
ctttgtggct tcatgaagga agaggcaggc cacgcaacac ttctcccca agccaaggag 180  
aagtatcaact tttagaggca gaggagcggg aggcagtggg tgtgacaaa agtgccattt 240  
gttaaagctt atcttcottg ccagatttta aaaactatta tggaaaatct caagcattca 300  
caaaagtaga gagaaagaaa ggactctcag actgttggag cagaactact gagaaaaacc 360  
aggcatttga tcttcagttg tcatcaagtt cgcaatcaga ttggaaaagc tcaacttgaa 420  
gctttcttgc ctgcagtga gacagagagat agatattatt cacgtaataa aaaacatggg 480  
cttcaacctg actttccacc ttctctacaa attccgatta ctgttgctgt tgactttgtg 540  
cctgacagtg gctgggtggg ccaccagtaa ctacttcgtg ggtgccattc aagagattcc 600  
taaagcaaag gagttcatgg ctaatttcca taagaccctc attttgggga agggaaaaaac 660  
tctgactaat gaagcatcca cgaagaagg agaacctgac aactgccctt ctgtgtctcc 720  
ttacctcaga ggccagagca agctcatitt caaacagat ctacttttg aagaggtaca 780  
ggcagaaaat cccaaagtgt ccagaggcgg gtatcgccct caggaatgta aagctttaca 840  
gagggtcgcc atctctgttc ccaccggaa cagagagaaa cacctgatgt acctgctgga 900  
acatctgcat cccttcttgc agaggcagca gctggattat ggcatctacg tcatccacca 960  
ggctgaagg aaaggtttt atcgagccaa actcttgaat gtgggctatc tagaagccct 1020  
caaggaagaa aattgggact gctttatatt ccacgatgtg gacctggtac ccgagaatga 1080  
ctttaacctt tacaagtgtg aggagcatcc caagcatctg gtggttggca ggaacagcac 1140  
tggttacagg ttacgttaca gtggatattt tgggggtgtt actgccctaa gcagagagca 1200  
gtttttcaag gtgaatggat tctctaacaa ctactgggga tggggaggcg aagacgatga 1260  
cctcagactc agggttgagc tccaaagaat gaaaatttcc cggcccctgc ctgaagtggg 1320  
taaataataca atggtcttcc acactagaga caaaggcaat gaggtgaacg cagaacggat 1380  
gaagctctta caccaagtgt cacgagtctg gagaacagat gggttgagta gttgttctta 1440  
taaattagta tctgtggaac acaatccttt atatatcaac atcacagtgg atttctggtt 1500  
tggtgcatga ccctggatct tttggtgatg tttggaagaa ctgattcttt gtttgcaata 1560  
attttggcct agagacttca aatagtagca cacattaaga acctgttaca gctcattgtt 1620  
gagctgaatt ttctcttttt gtattttctt agcagagctc ctggtgatgt agagtataaa 1680  
acagttgtaa caagacagct ttcttagtca ttttgatcat gagggttaaa tattgtaata 1740  
tggtacttg aaggacttta tataaaagga tgaactcaaag gataaaatga acgctatttg 1800  
aggactctgg ttgaaggaga tttattttaa tttgaagtaa tatattatgg gataaaaggc 1860  
cacaggaaat aagactgctg aatgtctgag agaaccagag ttgttctcgt ccaaggtaga 1920  
aaggtagcaa gatacaatac tgttattcat ttatcctgta caatcatctg tgaagtgggtg 1980  
gtgtcagggt agaaggcgtc cacaaaagag gggagaaaag gcgacgaatc aggacacagt 2040  
gaacttggga atgaagaggt agcaggaggg tggagtgtcg gctgcaaagg cagcagtagc 2100  
tgagctgggt gcagctgctg atagccttca ggggaggacc tgcccaggta tgccttccag 2160  
tgatgcccac cagagaatac attctctatt agttttttaa gagtttttgt aaaatgattt 2220  
tgtacaagta ggatatgaat tagcagttta caagtttaca tattaactaa taataaatat 2280  
gtctatcaaa tacctctgta gtaaatgtg aaaaagc 2317

<210> 10749

<211> 344

<212> PRT

<213> Homo sapiens

<400> 10749

-4228/13211-

```

Met Gly Phe Asn Leu Thr Phe His Leu Ser Tyr Lys Phe Arg Leu Leu
 1           5           10           15
Leu Leu Leu Thr Leu Cys Leu Thr Val Ala Gly Trp Ala Thr Ser Asn
          20           25           30
Tyr Phe Val Gly Ala Ile Gln Glu Ile Pro Lys Ala Lys Glu Phe Met
          35           40           45
Ala Asn Phe His Lys Thr Leu Ile Leu Gly Lys Gly Lys Thr Leu Thr
          50           55           60
Asn Glu Ala Ser Thr Lys Lys Val Glu Leu Asp Asn Cys Pro Ser Val
 65           70           75           80
Ser Pro Tyr Leu Arg Gly Gln Ser Lys Leu Ile Phe Lys Pro Asp Leu
          85           90           95
Thr Leu Glu Glu Val Gln Ala Glu Asn Pro Lys Val Ser Arg Gly Arg
          100          105          110
Tyr Arg Pro Gln Glu Cys Lys Ala Leu Gln Arg Val Ala Ile Leu Val
          115          120          125
Pro His Arg Asn Arg Glu Lys His Leu Met Tyr Leu Leu Glu His Leu
 130          135          140
His Pro Phe Leu Gln Arg Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile
 145          150          155          160
His Gln Ala Glu Gly Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val
          165          170          175
Gly Tyr Leu Glu Ala Leu Lys Glu Glu Asn Trp Asp Cys Phe Ile Phe
          180          185          190
His Asp Val Asp Leu Val Pro Glu Asn Asp Phe Asn Leu Tyr Lys Cys
          195          200          205
Glu Glu His Pro Lys His Leu Val Val Gly Arg Asn Ser Thr Gly Tyr
 210          215          220
Arg Leu Arg Tyr Ser Gly Tyr Phe Gly Gly Val Thr Ala Leu Ser Arg
 225          230          235          240
Glu Gln Phe Phe Lys Val Asn Gly Phe Ser Asn Asn Tyr Trp Gly Trp
          245          250          255
Gly Gly Glu Asp Asp Asp Leu Arg Leu Arg Val Glu Leu Gln Arg Met
          260          265          270
Lys Ile Ser Arg Pro Leu Pro Glu Val Gly Lys Tyr Thr Met Val Phe
          275          280          285
His Thr Arg Asp Lys Gly Asn Glu Val Asn Ala Glu Arg Met Lys Leu
 290          295          300
Leu His Gln Val Ser Arg Val Trp Arg Thr Asp Gly Leu Ser Ser Cys
 305          310          315          320
Ser Tyr Lys Leu Val Ser Val Glu His Asn Pro Leu Tyr Ile Asn Ile
          325          330          335
Thr Val Asp Phe Trp Phe Gly Ala
          340

```

<210> 10750

<211> 1723

09629469.072800

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (242).. (865)

<400> 10750

```

cgacgctcca cagctcgccg cggccggggg gcggtgcgcg gaccgtgcgc gccgcggggc 60
ccagatgtgc agtccccgcc gccgccagtg accgagccgc agtccgagcg gtatcggggc 120
gcctccctga tgctgcgggg gcgacctga gcgtacagcg gottccctcg gtgggggacc 180
cgacatccca gcgctgtgcc cggctcttgc ctctgtagcc cggttcgccc cgcgcttgga 240
catggaagg gcccgcgcgc ctgtggcggg ggaccgcccc gacttggggc tgggggcgcc 300
gggctctccc cgagaggcgg tggcgggggc gactgcagcc ctggagccca ggaagccgca 360
cgggggtgaag cggcatcacc acaagcaca cttgaagcac cgctacgagc tgcaggagac 420
cctgggcaaaa ggcacctacg gcaaagtcaa gcgggcccacc gagaggtttt ctggccgagt 480
ggttgctata aaatccgttc gtaaggacaa aattaaggat gaacaagaca tggttcacat 540
cagacgagag attgagatca tgtcatctct caaccatcct catatcatca gtatttatga 600
agtgtttgag aacaaaagata agatttgtat catcatggaa tatgccagca aaggggagct 660
gtacgattac atcagtgagc ggcgacgcct cagtgcagagg gagaccggc acttcttccg 720
gcagatcgtc tctgctgtgc actattgtca caagaacggt gtggtccacc gggacttgaa 780
gctgaaaaag accagcagag agaatcaggt tactactctt cccagagcg cagtgcgtct 840
tcggagctgt tggacagtaa tgatgtgatg ggcagcagca tcccctcccc cagccccccg 900
gacccagcca gggtaacctc ccacagcctc tcctgcggga ggaaggcat cttgaaacac 960
agcagcaaat actcagcggg caccatggac ccagcccttg tcctctcctt acttctgttg 1020
gcottgcacc gtcttagttt acacatctgc caaaggggta gaattacact tttttttaca 1080
ggtaaatgtc aaggcacaat cagttttcag gaagtgcctc aagaccccag gtgaaatgaa 1140
aatgctaagt accctctgaa tggccatgcc tgttaccagg tgctgcttct tcagatgatg 1200
gggagcactt ttcagggtga aattcaggcg agttttgccc aggcctgctg tottgagtac 1260
aaatgtgaat gatcgactga ctgcttggtt ccaaactgga aatgttctgt agggatttac 1320
tggcatggta tcattcctag aagaaaaaaa gagagaaact tgactgcaca ttaaaaaaaaa 1380
aaaaaaaaatc acattgtgac ttttatttaa tttctatttt ttttgtaat aaaaagttga 1440
cttttttatt tgaatttgc ttttttattt attggtctga aaggcatttc aaaggtatta 1500
taataatata ttggtgtaat ttaattgggt caacatgctt tatggctcct gtcaaaattg 1560
gttttcactc atttgattgg tttgagccca gaacagccta caggggaaag acaagctgga 1620
taaccaccca aagtgtttgt attttcgttg gaaactgatt tttgtttcat tttggttttt 1680
gtttctgttt ttatttttaa attaaataaa ttgcaatgaa ctg 1723

```

<210> 10751  
<211> 208  
<212> PRT  
<213> Homo sapiens

<400> 10751

```

Met Glu Gly Ala Ala Ala Pro Val Ala Gly Asp Arg Pro Asp Leu Gly
  1             5             10             15
Leu Gly Ala Pro Gly Ser Pro Arg Glu Ala Val Ala Gly Ala Thr Ala

```

09629469.072800

	20		25		30										
Ala	Leu	Glu	Pro	Arg	Lys	Pro	His	Gly	Val	Lys	Arg	His	His	His	Lys
	35		40		45										
His	Asn	Leu	Lys	His	Arg	Tyr	Glu	Leu	Gln	Glu	Thr	Leu	Gly	Lys	Gly
	50		55		60										
Thr	Tyr	Gly	Lys	Val	Lys	Arg	Ala	Thr	Glu	Arg	Phe	Ser	Gly	Arg	Val
	65		70		75										80
Val	Ala	Ile	Lys	Ser	Val	Arg	Lys	Asp	Lys	Ile	Lys	Asp	Glu	Gln	Asp
			85		90										95
Met	Val	His	Ile	Arg	Arg	Glu	Ile	Glu	Ile	Met	Ser	Ser	Leu	Asn	His
			100		105										110
Pro	His	Ile	Ile	Ser	Ile	Tyr	Glu	Val	Phe	Glu	Asn	Lys	Asp	Lys	Ile
			115		120										125
Val	Ile	Ile	Met	Glu	Tyr	Ala	Ser	Lys	Gly	Glu	Leu	Tyr	Asp	Tyr	Ile
			130		135										140
Ser	Glu	Arg	Arg	Arg	Leu	Ser	Glu	Arg	Glu	Thr	Arg	His	Phe	Phe	Arg
					150					155					160
Gln	Ile	Val	Ser	Ala	Val	His	Tyr	Cys	His	Lys	Asn	Gly	Val	Val	His
					165					170					175
Arg	Asp	Leu	Lys	Leu	Lys	Lys	Thr	Ser	Arg	Glu	Asn	Gln	Val	Thr	Thr
			180		185										190
Leu	Pro	Gln	Ser	Ala	Val	Ser	Leu	Arg	Ser	Cys	Trp	Thr	Val	Met	Met
			195		200										205

<210> 10752  
 <211> 1721  
 <212> DNA  
 <213> Homo sapiens

<400> 10752  
 accatcatgt taccatattc ttgccaaaaa aaaaaaaaaa aaaaaaaaaa caccagagtc 60  
 gttacatgaa gtatctttga tcaactgaatt tccagcactt ctttgtttgtg tctagatgct 120  
 aagccctttt ctaatttgaa aaaaaaaaaa aaacaaaaaa ctggagacct gattctgttt 180  
 atctcttgta gtttctctta tctctgtttc taaccactct atgtagtgcc tctttttttc 240  
 tgtctacaca cacacggagc atccaccata ccaataatca cagtatgtgg taatgaaaag 300  
 tggaagggaa aaatggccct tgcttctcac agacaaaactc actatctcaa tggatcattt 360  
 ttgttttttt gttttgtttt gtttttgaga cagtctcact ctgttgcgca ggctggagtg 420  
 cagttagtgca atcttagctc actacaacct ctgcccccggtttcaagcaa ttctcctgcc 480  
 tcagcctcct gagtagctgg gattacggca cctgccacca tgccttgcta atttttgttt 540  
 ttttagtaga gatagggttt caccatgttg gccaggctgg tctcgaactc ctgacctcaa 600  
 gtgatctgcc cgcctcggcc tcccaaagtg ctgaaattac aggcattgagc cacagcgccc 660  
 cgcctcaatg gatcctgatg agctacgcaa accattattt ttatgtcttt acgaatgcca 720  
 ccagaaagtt tcattttgtt ctttctgaaa acaacctatga ttataagatg tcttctgaaa 780  
 cacggaagtg agagaacatg ttgtacagag aagcatgcat ccctctgccc tgccaccact 840  
 gcacctatgc taagcatatt atagacagaa ggatgtccat ctgcctatgt aagctcttgc 900  
 ccgtttattc ttgggctctg tccaggctgt gacctatta ctcttttgtt ccttcatttg 960  
 aggactatga ctgtgaactg tatttcttcc tctctgcacc tatataggct acaggaggaa 1020

00620469.072800

gtaacaaaaa	tcttccccc	cacccagagc	taaatatttt	ttgccccaa	ctgaaagttc	1080
tctagtga	atgcagttca	aggccataga	tgcaggagag	aagtagattt	gttggcttct	1140
aaaaggaata	tctatacaga	tttgtcta	agcaccatcc	taacagcatt	ctgatttggt	1200
ttattttcca	tttttaatac	ctttgttgat	gtgtaattta	catacagtaa	actacacact	1260
taatgtatac	aattattataa	gtttttatgt	acatgtgtac	tcgagaaacc	atcaccacta	1320
tcaagataat	aaacatccat	caccccttgg	agaaatcacg	ttgcaatccc	tctcttgtgc	1380
ccctacctac	attctccgtt	ctaaggaact	gctgatcttc	tttctgtctc	tgtagattag	1440
tttgcatttt	ctagaatttt	atataaatgg	agccatataa	tatgtactct	ttttttggtc	1500
tggattcttt	ccatcaacat	aattatcttg	agatttatcc	attttttgca	tgtttcaata	1560
gtttatgcct	ttttattgct	caacagtatt	ccattgtatg	tatataccac	agactgttta	1620
tccatttgcc	tgtagatgga	tatttgggtt	gtttctagtt	ttgttgttgt	tgttgttgtt	1680
gttgttacca	ataaagctgc	tgtgaacatt	tggcaccagt	c		1721

<210> 10753

<211> 2283

<212> DNA

<213> Homo sapiens

<400> 10753

aacaaacatg	cagacagtct	tacagctgca	gttgccctgag	ccttaagggc	cttgctactc	60
aaagtgtggt	cctcggaccg	ccagcatcag	catcacctgg	gagcttggtta	gagaaaacaa	120
atctcagacc	tcaccgaccc	cacggaatca	ctatctgcat	tttaacgaca	tctccagggtg	180
attcatctgc	acacaagttc	aaccacaggc	tgaccattta	gagaagctgg	acttgagtgg	240
gattttgcag	tttttccttt	tgatggcctc	ctcccccttg	cttccccctcc	tacccttctg	300
actccttgta	gcttatttta	gaacatgtcg	ggatcctgct	tctcttgtca	acaaaaggct	360
gttgttaaaa	tctttcagcc	ggcagcagca	atgtttaatt	catggactag	aaaattaatt	420
ttattttcat	gaatagagct	gaggaaaaat	agcaaggaga	ctotgtgcat	ggcccttggg	480
aatccagctt	gtctatttta	cagatgaact	ggcaacagtg	gggaggcctg	aggggagggc	540
tgccctctac	aaacttgtgt	agcaaattgt	attaggatgc	ttttggctgc	aggtatcaca	600
aaattcagct	tcaaatggct	taaaagaaaa	ggaaaatttc	taatttcaact	gataaaaaat	660
cttgagatag	ggtactttta	ggatgacca	gaaatgccat	caaatagcag	gtttgttttc	720
tgccatgggtg	gcttggttga	ttcagttttc	ctcatgggtta	caagggtggc	gccagagttc	780
cgggcagcac	atggagtcaa	tgtcctatgg	aaggagaaag	aggctgcccc	tccctgaagt	840
ttcattttat	cagagacaaa	atctttcctg	gttacctcac	agctgatcct	cacagctggg	900
gtcctcttaa	atctcacttg	tggccgggtta	atggctcatg	cctgtaaccc	caccactttg	960
ggagactgag	gtgggtggat	cgcttgaggc	caggagttcc	agaccagcct	ggccaacata	1020
acgaagcccc	ttctctacta	aaaatacaaa	aattagctgg	gagtgatcgt	gaacacttgt	1080
aatcccagtt	actcgggagg	ctgaagcacg	agaattgctt	gaacccagga	ggcggagggtt	1140
gcagtgagcc	gagatcatgc	cgctgcactc	cagcctgggt	gacggagcga	gactgtcata	1200
aaaaagattt	taaaaaaagt	ctcacatgta	ggatttgtgtc	atgcgtccct	tggtaaacca	1260
gtcattggga	aggggatgga	ttactatggg	tggctcagcc	tgatcagggt	tggacacttt	1320
cttcatctgt	tgaggatact	ataacagagt	accacaaaact	gggtgacttt	taaatggaag	1380
aggaagaaat	ttattttctga	gttctggagg	ctgggaagtc	catgaacaat	gcctcggtag	1440
attggcgggt	ggtaaggacc	cacttcctta	ttcatatatg	gtgccttctt	tctgtgtctt	1500
cacatggcaa	aaggggtgaa	gggtctcttc	tctctccagc	cttttaaaaa	gtattgattg	1560
attgattgat	tgtctgacag	ggtcttgttc	tgtctcctag	gctggagtac	agtgtgtcac	1620
tcacagctta	ctctaaccac	gaactcctga	actcaaggga	tccttctacc	ccagcctccc	1680

000240 69462960



atattatatac atgggtgatta tgaatggtaa agcctttaca ctgaatgtaa tgtttaataa 1560  
 agaaattaca aattctcact ttctaag 1587

<210> 10755  
 <211> 429  
 <212> PRT  
 <213> Homo sapiens

<400> 10755

Met	Thr	Ala	Ala	Leu	Ala	Val	Val	Thr	Thr	Ser	Gly	Leu	Glu	Asp	Gly	1	5	10	15
Val	Pro	Arg	Ser	Arg	Gly	Glu	Gly	Thr	Gly	Glu	Val	Val	Leu	Glu	Arg	20	25	30	
Gly	Pro	Gly	Ala	Ala	Tyr	His	Met	Phe	Val	Val	Met	Glu	Asp	Leu	Val	35	40	45	
Glu	Lys	Leu	Lys	Leu	Leu	Arg	Tyr	Glu	Glu	Glu	Phe	Leu	Arg	Lys	Ser	50	55	60	
Asn	Leu	Lys	Ala	Pro	Ser	Arg	His	Tyr	Phe	Ala	Leu	Pro	Thr	Asn	Pro	65	70	75	80
Gly	Glu	Gln	Phe	Tyr	Met	Phe	Cys	Thr	Leu	Ala	Ala	Trp	Leu	Ile	Asn	85	90	95	
Lys	Ala	Gly	Arg	Pro	Phe	Glu	Gln	Pro	Gln	Glu	Tyr	Asp	Asp	Pro	Asn	100	105	110	
Ala	Thr	Ile	Ser	Asn	Ile	Leu	Ser	Glu	Leu	Arg	Ser	Phe	Gly	Arg	Thr	115	120	125	
Ala	Asp	Phe	Pro	Pro	Ser	Lys	Leu	Lys	Ser	Gly	Tyr	Gly	Glu	His	Val	130	135	140	
Cys	Tyr	Val	Leu	Asp	Cys	Phe	Ala	Glu	Glu	Ala	Leu	Lys	Tyr	Ile	Gly	145	150	155	160
Phe	Thr	Trp	Lys	Arg	Pro	Ile	Tyr	Pro	Val	Glu	Glu	Leu	Glu	Glu	Glu	165	170	175	
Ser	Val	Ala	Glu	Asp	Asp	Ala	Glu	Leu	Thr	Leu	Asn	Lys	Val	Asp	Glu	180	185	190	
Glu	Phe	Val	Glu	Glu	Glu	Thr	Asp	Asn	Glu	Glu	Asn	Phe	Ile	Asp	Leu	195	200	205	
Asn	Val	Leu	Lys	Ala	Gln	Thr	Tyr	His	Leu	Asp	Met	Asn	Glu	Thr	Ala	210	215	220	
Lys	Gln	Glu	Asp	Ile	Leu	Glu	Ser	Thr	Thr	Asp	Ala	Ala	Glu	Trp	Ser	225	230	235	240
Leu	Glu	Val	Glu	Arg	Val	Leu	Pro	Gln	Leu	Lys	Val	Thr	Ile	Arg	Thr	245	250	255	
Asp	Asn	Lys	Asp	Trp	Arg	Ile	His	Val	Asp	Gln	Met	His	Gln	His	Arg	260	265	270	
Ser	Gly	Ile	Glu	Ser	Ala	Leu	Lys	Glu	Thr	Lys	Gly	Phe	Leu	Asp	Lys	275	280	285	
Leu	His	Asn	Glu	Ile	Thr	Arg	Thr	Leu	Glu	Lys	Ile	Ser	Ser	Arg	Glu	290	295	300	

009220.69462960



Lys Tyr Ile Asn Asn Gln Leu Glu Asn Leu Val Gln Glu Tyr Arg Ala  
 305 310 315 320  
 Ala Gln Ala Gln Leu Ser Glu Ala Lys Glu Arg Tyr Gln Gln Gly Asn  
 325 330 335  
 Gly Gly Val Thr Glu Arg Thr Arg Leu Leu Ser Glu Val Met Glu Glu  
 340 345 350  
 Leu Glu Lys Val Lys Gln Glu Met Glu Glu Lys Gly Ser Ser Met Thr  
 355 360 365  
 Asp Gly Ala Pro Leu Val Lys Ile Lys Gln Ser Leu Thr Lys Leu Lys  
 370 375 380  
 Gln Glu Thr Val Glu Met Asp Ile Arg Ile Gly Ile Val Glu His Thr  
 385 390 395 400  
 Leu Leu Gln Ser Lys Leu Lys Glu Lys Ser Asn Met Thr Arg Asn Met  
 405 410 415  
 His Ala Thr Val Ile Pro Glu Pro Ala Thr Gly Phe Tyr  
 420 425

<210> 10756  
 <211> 1420  
 <212> DNA  
 <213> Homo sapiens

<400> 10756  
 aaggttatgt gtgatcgggt gtgggagaga cactctttgg ggctctgtat gggacattga 60  
 gagaccgtat gtgggagtga gagaccgtgt gtgacgggtg gtgtgagggg gcagtgtgtg 120  
 tggctgtgtg caacatgggt agcataccgt gctgtgtgtg tcacagaagt agattctgtg 180  
 tgagagagag tgagactgat gactgatgta cactgagagg tgggtgtggg aggtgtcatg 240  
 agaggcacat agggggcctg ggtgggacag acacagttag tgtcagacag tctgtgttgg 300  
 ccactctgtg tatggcttgt gaaaaagtgc gtgatccggg cacattgctg taatcccagc 360  
 actttgggtg gctgaggcgg gaggatccct tgaggccagg agtttgagat cagcctgggc 420  
 aacataggga gacccctccc cccacccccc cctgtcttac caaaataaaa ataaaagaaa 480  
 ttaaccagggt gcggttatgt acctctgttg tcccagctac tgggaggctg aggttggagg 540  
 atcgtttgag cctgggaagt ggaggctgca gtgagctaag atcgtgccac tgcactccag 600  
 cctgggtgac agagagagag acctgtctc aaaaaacaaa acaaaactgc gtgactatgt 660  
 gtgacactga gctgggtgaga gatggcagcg ttgtgacagt gcatgogaga gtttgcggct 720  
 gtgcagggca ctcggaagcg agagcgtgag ggaggccttg tgtgtagaag gcaagagatg 780  
 atggagagggt gggagttagt gtgtgaaacg ctgcgagctt gtgtgggact ctgtgagaca 840  
 ctgagccatc gtgggtagct aggtatgaca ccaggagatg ggttgcgtgc gtgtgtgtga 900  
 cagggacaga ctgtgtatgg agggaatgtg tcagatgcgt gtgacaccag gagactgtga 960  
 gagaatgtat gtgaccttcc atggttgtcg ctggacaggc gactgggtgt tactatgaaa 1020  
 tactataaaa cagtgtgtac ttgacagggt gtattgggta attgcatgcc accgtgagac 1080  
 acagaaagtg tgagactggg acagggtgtg agattgagag agttttaaag gcatgcaagg 1140  
 ccaggcgcgg tggctcacgc ctgtaatccc agcactttgg gaggccgagg cgggtggatg 1200  
 acctgaggtc aggagttaa gaccagcctg gccaacattg tgagaccctg tctctacgaa 1260  
 aaatacaaaa atcagacggg cgtggtgtca ggcacctgta atcccagcta ctcaggaggc 1320  
 tgaggcagga gaatggcttg aaccaggag gcggagggtg cagagagctg agattgggccc 1380  
 actgcactcc agcctgggca acacaggag acttcatctc 1420

09629469.072800

<210> 10757  
 <211> 1976  
 <212> DNA  
 <213> Homo sapiens

<400> 10757

tgtacaagag	atcattgtca	tcctgggtgt	tctttgtatt	cttcatacta	gaaatccata	60
acacgccaaa	tgcccttaga	accatggaca	gcaccaggt	tttacaatg	tcttctccag	120
gcttcagaag	gaaggtggtg	gacattcttt	ccatcatgac	acaaaccaac	aattacatac	180
caggctttgt	tggtgagaaa	gcaaggtggc	ccacctggag	atttatgccg	aaacaaccac	240
tttacaacac	aaccacacga	gtccttgacg	ttggcttggt	ttgtcaatcc	caccacctca	300
taccatttag	aaacttatca	gctatttcta	gataactggg	tgtttttagt	tcctgtagat	360
aaaactgaag	gctaaattga	atatatgact	aagttattta	ctatgaggaa	tcttagtcca	420
ggaaaacctc	tcaaaatata	caaatgtctg	agagatgtaa	tatatattaat	taatccctta	480
ctccttttat	ttttattttt	tattttttca	gagacaaggt	cttgctttga	caccagggt	540
ggagtgcagt	agtgcattca	gaggtcatta	cagcctccaa	ctcctgggct	taagtgatcc	600
tcctgcctca	tcctcccaag	cagctggagc	tacaagtgtg	caccatcatg	cctggccctc	660
ttattcctaa	acgtttcttc	atgaaggaag	atacaaattt	acatgagccc	atgctcttca	720
catgggtaag	gggaaaacag	agagaactca	cagggcaccc	acatattgtg	ctttatcatt	780
tgacctagga	acagtcttga	ataggcagct	tgggtttcta	ctcccagaaa	atactttgac	840
atacattaat	ttattcactt	aaaactcatt	atttcctggg	tttccatgca	gtgtctctga	900
aaaacattct	caaaatctca	ctaaaaatgg	gatccgttag	atcaattcaa	gaatagataa	960
aaccaaaaaca	gaacaaaaat	accagcagaa	ccaaaggtaa	ctcaaagatg	ctgcaccagt	1020
gtagttagca	cactcaattc	agttcaattc	aatttgtaaa	aataaagtta	gaagggttct	1080
taaataaactt	tgaccttaaa	taacaacatt	cagtctttta	tccagtttga	gtgtttgtcg	1140
aggaatcctg	ccataaaaaat	gtttgactct	ctgtaatttg	tggttgggaa	gattagaaag	1200
agaacccaaaa	tgtgaggaat	tcaacccaaac	atcaagataa	atcaactcag	ggccaggagt	1260
atttgtgcca	tgctgtctca	gagccgctat	ggacaagctc	agtttgtag	ttcagctctt	1320
tgaagcatga	tatgtagaca	cacttgcatg	ttcacacaca	ttgtttgcta	aactgtggga	1380
aggtaatcag	aagagaagag	ccacgagggt	gtcaatctag	catcagaaat	ttgggtggcat	1440
aggatttctc	tacaatgctg	tcactaaaa	ctttttgtaa	tgatgaagat	atcctatagc	1500
caagctgacc	aatacaatag	acattagtca	tatgtgactg	ttgagcactt	gaatatgggt	1560
agtgaatttg	aagaactgaa	tttttatatt	tagattttta	ttatttttaa	tttaagtagc	1620
tgcagatggc	taaaattgaa	tggtgaactt	ccaggacaaa	ggatgttttt	gccttcaaca	1680
atatcggaag	agcaggggtg	agtggaatgt	cagattgcaa	tgcaattgct	tgtgtttctg	1740
cgaggttcat	ggaagaaact	cattatactc	atttgtaatg	cttgatggta	aatttgattt	1800
tctcttttaga	atgtagagat	taaatcttgg	tttaaaactg	cctctctgtg	agcagtttct	1860
ccatcagtga	aacgggtgta	atttcaactc	gttgagagtg	ctcagttatg	caatatatgc	1920
aatgtttctt	atctgtgtct	gaaaacagtt	aataaaaggt	tgctgtgctt	gacgct	1976

<210> 10758  
 <211> 1610  
 <212> DNA  
 <213> Homo sapiens

09620469.072800

<220>  
<221> CDS  
<222> (249).. (587)

<400> 10758

```
tataaaacca taataaatta cttagactac aatgagcaaa acacatttgt gggtttggtc 60
agcagatact gctctgattt gccattaaaa tcttaaaaat tcttaaaaag ctctcttgaa 120
ttcgacctct actaccttcc aaggaccttg gaaagactta agtatgtgtt agaactctct 180
tgaaggcttg gtcttccctt agtgacatta acactcaggt ttgttattcc agtgggcagc 240
cccagttcat gcaaactgac ctgttgtgtc tgggtgtcctt agactttgat atgcaggcca 300
aagtccaagg gatatgcaaa cataacacac acctgtactt ccataaaaaac cagcagaatt 360
gtagatcagc tcattttact gaaattttta accctgtaaa aaaaaaaaata ctatgtttga 420
agaaagaaat cctgggtgcat ataaaaacta caatgagtaa cagtaataca ggtaagaatc 480
aagcaggcct tgagcaaaac agtccattat tactgcgtaa actatgttgc tatgatactt 540
atitttgagcc tttatgcacc agcacatata tagtaagaca cacaagatag ttcaacaaaa 600
tctaagtaat atacaaacac tgtaagagct ttccaacca aagaaacttt aatgtagatc 660
tgaaatgagc catcatgata cagaaaaaga tgattaccat ttctgttctt ttccaagtag 720
aactatctga taaacttttc tgtttgtatc agaagagatt tcaactcaac atgaaaattc 780
tactacttgg aattatttga aaaatcaagt atttgaagga aaaaattatt tttcatctaa 840
agacgcatta catttccctt tgctagaaac gattgacaat gatgtaattt ttcctgacat 900
ataattaatt atggtactct tcaggtggat ggcagctgta tacctacact cattccaagt 960
catgttgaag tgagtccagc atttcccttt ctccagcacc cagctatata taaggagatt 1020
tttttttccc cacaaatgac agtggctgaa atttcatatg tattgttctc ttctcacca 1080
aggcaactct taagaaagaa cagtatgttg aatgttgcac gtaaaagatt tttgcatact 1140
caaaaaattg ctctgacata acaggggcat gcatttaggg gatatatgga taaactaggg 1200
aggaaactga cagttattga tggactcaca tatcccatag tgaagtaggc attacatata 1260
ttatttcaga atacctggta tgtttttgcc taaaaatctt ttatttgatt ttgaagaaag 1320
ctattgtata atgtttgaag accagtcctt gtaagtagga ctaatgtgtg gtgggtggccc 1380
atagtcttct ggatattggt ttgtttttgt catagatttc attaataaat ttatttctgc 1440
cctcaactat atatacaact gagtaagcca tttaagaatt ctgactcctt ggctgggcat 1500
ggtggctcat gcctgtaatc ccagtacttt gggaggccaa ggcagccaga tcacttgagg 1560
tcaggagttt gagaccaacc tggccaacat ggtgaaactc tgtctctacc 1610
```

<210> 10759  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 10759

```
Met Gln Thr Asp Leu Leu Cys Leu Val Ser Leu Asp Phe Asp Met Gln
  1             5             10             15
Ala Lys Val Gln Gly Ile Cys Lys His Asn Thr His Leu Tyr Phe His
          20             25             30
Lys Asn Gln Gln Asn Cys Arg Ser Ala His Phe Thr Glu Ile Leu Asn
          35             40             45
Pro Val Lys Lys Lys Ile Leu Cys Leu Lys Lys Glu Ile Leu Val His
          50             55             60
```

09529469.072800

Ile Lys Thr Thr Met Ser Asn Ser Asn Thr Gly Lys Asn Gln Ala Gly  
65 70 75 80  
Leu Glu Gln Asn Ser Pro Leu Leu Leu Arg Lys Leu Cys Cys Tyr Asp  
85 90 95  
Thr Tyr Phe Glu Pro Leu Cys Thr Ser Thr Tyr Ile Val Arg His Thr  
100 105 110  
Arg

<210> 10760

<211> 1813

<212> DNA

<213> Homo sapiens

<400> 10760

acatggaatg atcagaatcg tggaggcaaa gctctgtcca aaaatgttca ttttgttttg 60  
ttttgttttg ttttcttggt ttttaacattt ccttcacccct ggtgaaatat cctggaaatt 120  
catagatctg ggtttggtga tttcaaaact caccatgccc agtggccatt tcagttactg 180  
ccgtgacatc cctgaggcta ccatactctc aaaaccaaact caatgccagt gatctaacag 240  
gattctttct tatttatgag ttttgtttag atggatatit ttgcagagca taaaaaatta 300  
aatgacattt agttatccat tgaatgtatc accctgactt aaaaaaaaaat ccttaaatca 360  
aaacttttca aaaaatctgg gctatggagt cactccctct gtggagcgag agcccagtct 420  
tttctgggtac taaggccaca gaggcaattt ccagtagcat ttttatatct tctctaagtt 480  
tcttttcctt ttctgtctgt atctgttttt ctctgactgc ctatatctta ctttgtatac 540  
ccatacataa attattttcc catcttctct cttccctttt ttttctgatt tgttttctct 600  
cttgcaagaa actctgaaat aaccttcaga acacaaaaaa ctggagggtc tatacctaca 660  
gagtcattat cattattgtg attaccattg ttactgttgt tgggtgtttt cctcttttta 720  
ttgtgtagca atatccatat tcacttctga tgaggcaaac ctgtttacta taaaccaatg 780  
tcctccctaa aggagtcagt ttcattttca cttctcacat caccagttgt atcgcaaccc 840  
atottacaac cattgccatg ttttcaggct tccttgccat aaatgttttc tgggcaata 900  
atggcaaagc aacaattcca gaatgctgtc tagatctgtt ttctccacc ctcagcattt 960  
gacctcctc attcgctga gcccccaggg ttaggatttc ttggaaaaac ttgtatactg 1020  
tacctgatgg aatgcccat cttcctaact acttagcaca agtgcttgct catcgtaagt 1080  
gatctgaggg ccactaattc ctgaagactg acaaagagac acgaagagac taccctctta 1140  
agatggggat gcatggttct tcatgcagt ctcttgcca ccgagatcct tcatccatgc 1200  
cattgcatgg atgaatacgt ttgatgttgg cagttaaaat gggatgggag tgtcacccctg 1260  
caggaagtaa gaaaagagga tggcaggatc tctgatcagg gagctgggtc aagcagggct 1320  
ggaaagcttc tgtgcttaac aaaatgtgca tgcgtgtccc aagtaaatgc tcatccctag 1380  
gttttagagct gacctgggtt ttggggagtt tgtattttta aggaattaaa tactcatgag 1440  
ttaaaatact catgattgca aagaaggtct ggattgcctg aaaaacaaat taattctaag 1500  
aagctaatat gattttctca tcatccctta gctcttcctt ttccctcctt ttgtcctcac 1560  
tcaaccccag accctgtgta ataggaacat taatttttaa agaccacacag atcaatagcc 1620  
acaactttcc actctacacc ttttattgac accaagttat catcccagaa ctaatgaagc 1680  
aagtcagat gctagacgtg gcccttaat attgagcaat ttgattgcaa tcctgcttgt 1740  
ttttgtaagt tatctcaact ttattcttgt gaaattgcaa aggaagatca ataaaaagac 1800  
ttcatatgaa tgt 1813

000240"69462950

<210> 10761  
<211> 1801  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (411).. (1799)

<400> 10761  
agaagatcta ggaaagaaga ttgcttttggc cttgaacaaa gtggatggag ccaatgtggc 60  
tcttaaagac tctgaccaag tagcacagag tgatggggag gagagccctg ctgctgaaga 120  
gcagctcttg ggagagcaca ttaaagagga aaaagaagaa tctgaatttc taccctcatc 180  
tggaggaaca tttaatatct ctgtcagtgg ggacattgat ggtttaatta ctgaggcttt 240  
gctgacgggc aattttgaga gtgctgttga cctttgttta catgataacc gcatggccga 300  
tgccattata ttggccatag caggtggaca agtactcttg gctcgaacct agaaaaaat 360  
acttcgcaaa atcccaaagc aaaattacca ggctcatcac tgcagtgggt atgaagaact 420  
ggaaagagat tgttgagtct tgtgatctta aaaattggag agaggcttta gctgcagtat 480  
tgacttatgc aaagccggat gaattttcag ccctttgtga tcttttggga accaggcttg 540  
aaaatgaagg agatagcctc ctgcagactc aagcatgtct ctgctatatt tgtgcaggga 600  
atgtagagaa attagtgtga tgttggacta aagctcaaga tgggaagccac cctttgtcac 660  
ttcaggatct gattgagaaa gttgtcatcc tgcgaaaagc tgtgcaactc actcaagcca 720  
tggacactag tactgtagga gttctcttgg ctgcgaagat gagtcatgat gccaatitgt 780  
tggcagctca gggcagtatt gctgcagcct tggcctttct tcctgacaac accaaccagc 840  
caaatatcat gcagcttcgt gacagacttt gtagagcaca aggagagcct gtagcaggac 900  
atgaatcacc taaaattccg tacgagaaac agcagctccc caagggcagg cctggaccag 960  
ttgctggcca ccaccagatg ccaagagttc aaactcaaca atattatccc catggagaaa 1020  
atcctccacc tccgggtttc ataatgcatg gaaatgttaa tccaaatgct gctggtcagc 1080  
ttcccacatc tccaggtcat atgcacaccc aggtaccacc ttatccacag ccacagcctt 1140  
atcaaccagc ccagccgtat cccttcggaa cagggggggtc agcaatgtat cgacctcagc 1200  
agcctgttgc tcctcctact tcaaacgctt accctaacac cccttacata tcttctgctt 1260  
cttctatac tgggcagtct cagctgtacg cagcacagca ccaggcctct tcacctacct 1320  
ccagccctgc tacttctttc cctcctcccc ctctctctgg agcatccttc cagcatggcg 1380  
gaccaggagc tccaccatca tcttcagctt atgcaactgc tcctggaaca acaggtagac 1440  
tgctgtctgc cagttagctg cctgcgtccc aaagaacagg tcctcagaat ggttggaatg 1500  
accctccagc tttgaacaga gtacccaaaa agaagaagat gcctgaaaac ttcatgcctc 1560  
ctgttcccat cacatcacca atcatgaacc cgttgggtga cccccagtca caaatgctgc 1620  
agcaacagcc ttcagctcca gtaccactgt caagccagtc ttcattccca cagcccttcc 1680  
atggcgtaca gcaacctctt ggtcaaacag gcatgccacc atctttttca aagcccaata 1740  
ttgaagggtc cccaggggct cctattggaa ataccttcca gcatgtgcag tctttgccaa 1800  
c 1801

<210> 10762  
<211> 463  
<212> PRT  
<213> Homo sapiens

09529469.072300

<400> 10762

Met	Lys	Asn	Trp	Lys	Glu	Ile	Val	Glu	Ser	Cys	Asp	Leu	Lys	Asn	Trp
1				5				10						15	
Arg	Glu	Ala	Leu	Ala	Ala	Val	Leu	Thr	Tyr	Ala	Lys	Pro	Asp	Glu	Phe
			20					25					30		
Ser	Ala	Leu	Cys	Asp	Leu	Leu	Gly	Thr	Arg	Leu	Glu	Asn	Glu	Gly	Asp
		35					40					45			
Ser	Leu	Leu	Gln	Thr	Gln	Ala	Cys	Leu	Cys	Tyr	Ile	Cys	Ala	Gly	Asn
	50					55					60				
Val	Glu	Lys	Leu	Val	Ala	Cys	Trp	Thr	Lys	Ala	Gln	Asp	Gly	Ser	His
65					70					75					80
Pro	Leu	Ser	Leu	Gln	Asp	Leu	Ile	Glu	Lys	Val	Val	Ile	Leu	Arg	Lys
				85					90					95	
Ala	Val	Gln	Leu	Thr	Gln	Ala	Met	Asp	Thr	Ser	Thr	Val	Gly	Val	Leu
			100					105					110		
Leu	Ala	Ala	Lys	Met	Ser	Gln	Tyr	Ala	Asn	Leu	Leu	Ala	Ala	Gln	Gly
	115						120					125			
Ser	Ile	Ala	Ala	Ala	Leu	Ala	Phe	Leu	Pro	Asp	Asn	Thr	Asn	Gln	Pro
130						135					140				
Asn	Ile	Met	Gln	Leu	Arg	Asp	Arg	Leu	Cys	Arg	Ala	Gln	Gly	Glu	Pro
145					150					155					160
Val	Ala	Gly	His	Glu	Ser	Pro	Lys	Ile	Pro	Tyr	Glu	Lys	Gln	Gln	Leu
				165					170					175	
Pro	Lys	Gly	Arg	Pro	Gly	Pro	Val	Ala	Gly	His	His	Gln	Met	Pro	Arg
			180					185					190		
Val	Gln	Thr	Gln	Gln	Tyr	Tyr	Pro	His	Gly	Glu	Asn	Pro	Pro	Pro	Pro
	195					200						205			
Gly	Phe	Ile	Met	His	Gly	Asn	Val	Asn	Pro	Asn	Ala	Ala	Gly	Gln	Leu
210					215					220					
Pro	Thr	Ser	Pro	Gly	His	Met	His	Thr	Gln	Val	Pro	Pro	Tyr	Pro	Gln
225					230					235					240
Pro	Gln	Pro	Tyr	Gln	Pro	Ala	Gln	Pro	Tyr	Pro	Phe	Gly	Thr	Gly	Gly
				245					250					255	
Ser	Ala	Met	Tyr	Arg	Pro	Gln	Gln	Pro	Val	Ala	Pro	Pro	Thr	Ser	Asn
		260						265					270		
Ala	Tyr	Pro	Asn	Thr	Pro	Tyr	Ile	Ser	Ser	Ala	Ser	Ser	Tyr	Thr	Gly
	275						280					285			
Gln	Ser	Gln	Leu	Tyr	Ala	Ala	Gln	His	Gln	Ala	Ser	Ser	Pro	Thr	Ser
	290					295					300				
Ser	Pro	Ala	Thr	Ser	Phe	Pro	Pro	Pro	Pro	Ser	Ser	Gly	Ala	Ser	Phe
305					310					315					320
Gln	His	Gly	Gly	Pro	Gly	Ala	Pro	Pro	Ser	Ser	Ser	Ala	Tyr	Ala	Leu
				325					330					335	
Pro	Pro	Gly	Thr	Thr	Gly	Thr	Leu	Pro	Ala	Ala	Ser	Glu	Leu	Pro	Ala
			340					345					350		
Ser	Gln	Arg	Thr	Gly	Pro	Gln	Asn	Gly	Trp	Asn	Asp	Pro	Pro	Ala	Leu
		355					360					365			

09629469.072800

Asn	Arg	Val	Pro	Lys	Lys	Lys	Lys	Met	Pro	Glu	Asn	Phe	Met	Pro	Pro
370						375					380				
Val	Pro	Ile	Thr	Ser	Pro	Ile	Met	Asn	Pro	Leu	Gly	Asp	Pro	Gln	Ser
385					390					395					400
Gln	Met	Leu	Gln	Gln	Gln	Pro	Ser	Ala	Pro	Val	Pro	Leu	Ser	Ser	Gln
				405					410					415	
Ser	Ser	Phe	Pro	Gln	Pro	Phe	His	Gly	Val	Gln	Gln	Pro	Leu	Gly	Gln
			420					425					430		
Thr	Gly	Met	Pro	Pro	Ser	Phe	Ser	Lys	Pro	Asn	Ile	Glu	Gly	Ala	Pro
		435					440					445			
Gly	Ala	Pro	Ile	Gly	Asn	Thr	Phe	Gln	His	Val	Gln	Ser	Leu	Pro	
450						455					460				

<210> 10763  
 <211> 1678  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (373)..(1005)

<400> 10763

agacgatccg	ctagccacat	taggcgctcg	gtctctgcgt	ccgccccctcc	cgtgcctcag	60
agacttgccg	tccccaggcc	cgagcccctg	tgggcccato	ctcgagcccg	tgtggctcgc	120
gaacctctaa	ctccagccgc	tgcagccccc	tcccaggccc	ggcgccccg	agccccgcgg	180
gcgcccgcgc	tgcccttctt	tggctacgct	gcagccgcgg	tgtcggcgag	tcctcccggg	240
ttgccccccg	gggcgtcaga	gggaggggcg	gcgcccgcgt	ggtgacggcg	acgcctgcag	300
cccaaggagc	gctccactcg	ctgcccgcgg	agggggccggt	gacctcttgg	ctacccccgc	360
toggaggcgt	agatggctca	ggcgaagatc	aacgctaaag	ccaacgaggg	gcgcttctgc	420
cgctcctcct	ccatggctga	ccgctccagc	cgcctgctgg	agagcctgga	ccagctggag	480
ctcagggttg	aagctttgag	agaagcagca	actgctgttg	agcaagagaa	agaaatcctt	540
ctggaaatga	tccacagtat	ccaaaatagc	caggacatga	ggcagatcag	tgacggagaa	600
agagaagaat	taaatctgac	tgcaaaccgt	ttgatgggaa	gaactctcac	cgttgaagtg	660
tcagtagaaa	caattagaaa	ccccagcag	caagaatccc	taaagcatgc	cacaaggatt	720
attgatgagg	tgggtcaataa	gtttctggat	gatttgggaa	atgccaagag	tcattttaatg	780
tcgctctgca	gtgcatgttc	atctgagggt	ccacatgggc	cagttgatca	gaagtttcaa	840
tccatagtaa	ttggctgtgc	tcttgaagat	cagaagaaaa	ttaagagaag	attagagact	900
ctgcttagaa	atattgaaaa	ctctgacaag	gccatcaagc	tattagagca	ttctaaaagga	960
gctggttcca	aaactctgca	acaaaatgct	gaaagcagat	tcaattagtc	ttcaaacctta	1020
agagcattta	cacaatacac	aagggtgtaa	aatgataaaa	tactatttta	attgataact	1080
agttctttgt	taggtataac	cacttagttg	acactgatag	tigtittcaga	tgaggaaaat	1140
attccatcaa	gtatcttcag	ttttgtgaat	aacaaaacta	gcaatatttt	aattatctat	1200
ctagagattt	tttagattga	attcttgtct	tgtactagga	tctagcatat	ttcactattc	1260
tgtggatgaa	tacatagttt	gtggggaaaa	caaacgttca	gctaggggga	aaaagcatga	1320
ctgctttttc	ctgtctggca	tggaatcacg	cagtcacctt	gggcatttag	tttactagaa	1380
attctttacc	ttaagcagca	cacacattta	ctacacacac	agtggttaaca	aagcactgtg	1440

00822.0" 69462960

-4241/13211-

cttagagggt aaaaaggaat cacaaaacaa gaatctttcc aaagttgtct cattcagcaa 1500  
tgtaaggca tctgtatcaa attattttgg atgtaaagat tcctgtgtct cataatatga 1560  
atgtattttt tgatatacaa gaaactgaca taaaatatga gaaaaccacc tataatttac 1620  
cactgtgaac aattatatat ctatctgctt catcttttct caaatgcatc aattctct 1678

<210> 10764

<211> 211

<212> PRT

<213> Homo sapiens

<400> 10764

Met Ala Gln Ala Lys Ile Asn Ala Lys Ala Asn Glu Gly Arg Phe Cys  
1 5 10 15  
Arg Ser Ser Ser Met Ala Asp Arg Ser Ser Arg Leu Leu Glu Ser Leu  
20 25 30  
Asp Gln Leu Glu Leu Arg Val Glu Ala Leu Arg Glu Ala Ala Thr Ala  
35 40 45  
Val Glu Gln Glu Lys Glu Ile Leu Leu Glu Met Ile His Ser Ile Gln  
50 55 60  
Asn Ser Gln Asp Met Arg Gln Ile Ser Asp Gly Glu Arg Glu Glu Leu  
65 70 75 80  
Asn Leu Thr Ala Asn Arg Leu Met Gly Arg Thr Leu Thr Val Glu Val  
85 90 95  
Ser Val Glu Thr Ile Arg Asn Pro Gln Gln Glu Ser Leu Lys His  
100 105 110  
Ala Thr Arg Ile Ile Asp Glu Val Val Asn Lys Phe Leu Asp Asp Leu  
115 120 125  
Gly Asn Ala Lys Ser His Leu Met Ser Leu Cys Ser Ala Cys Ser Ser  
130 135 140  
Glu Val Pro His Gly Pro Val Asp Gln Lys Phe Gln Ser Ile Val Ile  
145 150 155 160  
Gly Cys Ala Leu Glu Asp Gln Lys Lys Ile Lys Arg Arg Leu Glu Thr  
165 170 175  
Leu Leu Arg Asn Ile Glu Asn Ser Asp Lys Ala Ile Lys Leu Leu Glu  
180 185 190  
His Ser Lys Gly Ala Gly Ser Lys Thr Leu Gln Gln Asn Ala Glu Ser  
195 200 205  
Arg Phe Asn  
210

<210> 10765

<211> 1734

<212> DNA

<213> Homo sapiens

<220>

09629469.072600



<221> CDS  
<222> (246).. (1064)

<400> 10765

```
atttgtgggaa gggcggccgg tgcagccgca gctgccatct taggggcgcc tggcgctacg 60
ggtttctcgt tggaggcggc cttcgtggca gctgtagacg ccgggaaaag gcataaagtc 120
cgttggccga cacccttctt tcctccggcc tcggtagaac cgccagcccg cgtccgaagg 180
cggaggcgag gggaactggc cgcgtgaggg gcctgaggcg agcggttaga gcgtctcccg 240
gaaggatggg ccggtctcgg agccggagct cgtcccgcct caagcacacc aagagcagca 300
agcacaacaa gaagcgcagc cgggtccggg cgcgatcccg ggacaaggag cgcgtgcgga 360
agcgtttcaa atctcgggaa agtaaacgga accggcggcg ggagtcgcgg tcccgttcgc 420
gctccacca cagggccgtg tcccggcgag agcgggacgg ggagcgcgcc tcgtccccgc 480
ccgaccgcat cgacatcttc gggcgcacgg tgagcaagcg cagcagcctg gacgagaagc 540
agaagcgaga ggaggaggag aagaaagcgg agttcgagcg gcagcgaata attcgacagc 600
aagaaataga agaaaaactc atcgaggaag aaacagcacg aagagtagaa gaattggtag 660
caaaaagggt ggaggaagaa ctggagaaaa ggaaggatga aattgaacga gaatttctcc 720
gaagggtgga ggaagccaaa cgcattcatg aaaagcagtt gctcgaagaa ctcgagcgac 780
agagacaagc tgagcttgcc gcacaaaaag ctagagagga ggaagaacgt gcaaaacgtg 840
aggagctaga gcgaatactg gaagagaata accgaaaaat tgcagaagca caagccaaac 900
tggccgaaga acagttgaga attgttgaag aacaaagaaa gattcatgag gaaaggatga 960
aactagaaca agaacgacaa cgtcaacaga aagaagaaca aaaaattatc ctgggcaagg 1020
ggaagtccag gccaaaactg tccttctcat taaaaaccca ggattaaatt gcaaactctg 1080
aactttttac aaagaaaaat ggaaaaactt tgtatggtag cttcatgttg aagtggtttt 1140
ttgtttttgt ttttgttttt ttaattttgt aaatctggaa agttagcttg ttctaattagg 1200
ggctatgctc tgcaattccc tttttttttt ttttttccct ccaactaagtc aaatccttat 1260
cagatcattg ttgtattcta aggagtgcag tatttttcac ctgtttggat tctatattag 1320
tggtctgagg aagagcagat cacattgtaa aactatggat ggtctgataa ggcttttact 1380
gacccactg acttcagagt tatactctgc ttgctacatc ataattgctg ttttgctgac 1440
ttttgttttt tttatatatt tataaaaaaa gaaaaagttg gtgattgcat tgggaaattc 1500
ccagggtatt actggacctg tgtggtgtat tgtaaacca gtgtccttgt gatactgtcg 1560
ctcttgatgt tcctgataca ggtaaggaaa cagttgggtc actctgatac aaagtatata 1620
tacagttcag tattgtctct gttcattttg tttttatttc attgacaaaa tcaaaccagc 1680
attccccatt gtgtaaataa atgattttgc tgaataaagt aaagtcttaa attc 1734
```

<210> 10766  
<211> 273  
<212> PRT  
<213> Homo sapiens

<400> 10766

```
Met Gly Arg Ser Arg Ser Arg Ser Ser Arg Ser Lys His Thr Lys
  1             5             10             15
Ser Ser Lys His Asn Lys Lys Arg Ser Arg Ser Arg Ser Arg Ser Arg
      20             25             30
Asp Lys Glu Arg Val Arg Lys Arg Ser Lys Ser Arg Glu Ser Lys Arg
      35             40             45
Asn Arg Arg Arg Glu Ser Arg Ser Arg Ser Arg Ser Thr Asn Thr Ala
```

09629469.072800

-4243/13211-

50	55	60
Val Ser Arg Arg Glu Arg Asp Arg Glu Arg Ala Ser Ser Pro Pro Asp		
65	70	75
Arg Ile Asp Ile Phe Gly Arg Thr Val Ser Lys Arg Ser Ser Leu Asp		
85	90	95
Glu Lys Gln Lys Arg Glu Glu Glu Glu Lys Lys Ala Glu Phe Glu Arg		
100	105	110
Gln Arg Lys Ile Arg Gln Gln Glu Ile Glu Glu Lys Leu Ile Glu Glu		
115	120	125
Glu Thr Ala Arg Arg Val Glu Glu Leu Val Ala Lys Arg Val Glu Glu		
130	135	140
Glu Leu Glu Lys Arg Lys Asp Glu Ile Glu Arg Glu Val Leu Arg Arg		
145	150	155
Val Glu Glu Ala Lys Arg Ile Met Glu Lys Gln Leu Leu Glu Glu Leu		
165	170	175
Glu Arg Gln Arg Gln Ala Glu Leu Ala Ala Gln Lys Ala Arg Glu Glu		
180	185	190
Glu Glu Arg Ala Lys Arg Glu Glu Leu Glu Arg Ile Leu Glu Glu Asn		
195	200	205
Asn Arg Lys Ile Ala Glu Ala Gln Ala Lys Leu Ala Glu Glu Gln Leu		
210	215	220
Arg Ile Val Glu Glu Gln Arg Lys Ile His Glu Glu Arg Met Lys Leu		
225	230	235
Glu Gln Glu Arg Gln Arg Gln Gln Lys Glu Glu Gln Lys Ile Ile Leu		
245	250	255
Gly Lys Gly Lys Ser Arg Pro Lys Leu Ser Phe Ser Leu Lys Thr Gln		
260	265	270

Asp

<210> 10767  
 <211> 2044  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (107).. (1303)

<400> 10767  
 gcgcacgtcc cggagcccat gccgaccgca ggcgccgtat ccgcgctcgt ctagcagccc 60  
 cggttacgcg gttgcacgtc ggccccagcc ctgaggagcc ggaccgatgt ggaaactgct 120  
 gcccgccgcg ggcccgccag gaggagaacc atacagactt ttgactggcg ttgagtacgt 180  
 tggttgaagg aaaaactgtg ccattctaatt tgaaaatgat cagtcgatca gccgaaatca 240  
 tgctgtgtta actgctaact tttctgtaac caacctgagt caaacagatg aaatccctgt 300  
 attgacatta aaagataatt ctaagtatgg tacctttgtt aatgaggaaa aaatgcagaa 360  
 tggcttttcc cgaactttga agtcggggga tggattact tttggagtgt ttggaagtaa 420

09629469.072800

```

attcagaata gagtatgagc ctttggttgc atgctcttct tgttttagatg tctctgggaa 480
aactgcttta aatcaagcta tattgcaact tggaggattt actgtaaaca attggacaga 540
agaatgcact caccttgtca tggatatcagt gaaagttacc attaaaacaa tatgtgcact 600
catttgtgga cgtccaattg taaagccaga atattttact gaattcctga aagcagttca 660
gtccaagaag cagcctccac aaattgaaag tttttaccca cctcttgatg aaccatctat 720
tggaagtaaa aatgttgatc tgtcaggacg gcaggaaaga aaacaaatct tcaaagggaa 780
aacatttata tttttgaatg ccaaacagca taagaaattg agttccgcag ttgtctttgg 840
aggtggggaa gctaggttga taacagaaga gaatgaagaa gaacataatt tctttttggc 900
tccgggaacg tgtgttggtg atacaggaat aacaaactca cagaccttaa ttcctgactg 960
tcagaagaaa tggattcagt caataatgga tatgctccaa aggcaaggtc ttagacctat 1020
tcctgaagca gaaattggat tggcgggtgat tttcatgact acaaagaatt actgtgatcc 1080
tcaggggccat cccagtacag gattaaagac aacaactcca ggaccaagcc tttcacaagg 1140
cgtgtcagtt gatgaaaaac taatgccaaag cgccccagtg aacactacaa catacgtagc 1200
tgacacagaa tcagagcaag cagatacatg ggatttgagt gaaaggccaa aagaaatcaa 1260
agtctccaaa atggaacaaa aacaccaact aaattgccaa gtataaataa aagtaaagat 1320
agggcttctc agcagcagca gaccaactcc atcagaaact actttcagcc gtctaccaa 1380
aaaaagggaa agggatgaag aaaatcaaga aatgtcttca tgcaaatacag caagaataga 1440
aacgtcttgt tctcttttag aacaaacaca acctgctaca cctcatttgt ggaaaaataa 1500
ggagcagcat ctatctgaga atgagcctgt ggacacaaac tcagacaata acttatttac 1560
agatacagat ttaaaatcta ttgtgaaaaa ttctgccagt aaatctcatg ctgcagaaaa 1620
gctaagatca aataaaaaaa gggaaatgga tgatgtggcc atagaagatg aagtattgga 1680
acagttattc aaggacacaa aaccagagtt agaaattgat gtgaaagttc aaaaacagga 1740
ggaagatgtc aatgttagaa aaaggccaag gatggatata gaaacaaatg acactttcag 1800
tgatgaagca gtaccagaaa gtagcaaaat atctcaagaa aatgaaattg ggaagaaacg 1860
tgaactcaag gaagactcac tatggtcagc taaagaaata tctaacaatg gcaaaacttca 1920
ggatgatagt gagatgcttc caaaaaagct gttattgact gaatttagat cactggtgat 1980
taaaaaactct acttcagaa atccgtctgg cataaatgat gattatggtc aactaaaaaa 2040
tttc

```

<210> 10768  
 <211> 399  
 <212> PRT  
 <213> Homo sapiens

<400> 10768

Met	Trp	Lys	Leu	Leu	Pro	Ala	Ala	Gly	Pro	Ala	Gly	Gly	Glu	Pro	Tyr
1				5				10					15		
Arg	Leu	Leu	Thr	Gly	Val	Glu	Tyr	Val	Val	Gly	Arg	Lys	Asn	Cys	Ala
			20					25					30		
Ile	Leu	Ile	Glu	Asn	Asp	Gln	Ser	Ile	Ser	Arg	Asn	His	Ala	Val	Leu
		35					40					45			
Thr	Ala	Asn	Phe	Ser	Val	Thr	Asn	Leu	Ser	Gln	Thr	Asp	Glu	Ile	Pro
	50						55				60				
Val	Leu	Thr	Leu	Lys	Asp	Asn	Ser	Lys	Tyr	Gly	Thr	Phe	Val	Asn	Glu
65					70					75				80	
Glu	Lys	Met	Gln	Asn	Gly	Phe	Ser	Arg	Thr	Leu	Lys	Ser	Gly	Asp	Gly
			85					90						95	

09629469.072800

-4245/13211-

Ile	Thr	Phe	Gly	Val	Phe	Gly	Ser	Lys	Phe	Arg	Ile	Glu	Tyr	Glu	Pro
			100					105					110		
Leu	Val	Ala	Cys	Ser	Ser	Cys	Leu	Asp	Val	Ser	Gly	Lys	Thr	Ala	Leu
		115					120					125			
Asn	Gln	Ala	Ile	Leu	Gln	Leu	Gly	Gly	Phe	Thr	Val	Asn	Asn	Trp	Thr
	130					135					140				
Glu	Glu	Cys	Thr	His	Leu	Val	Met	Val	Ser	Val	Lys	Val	Thr	Ile	Lys
145					150					155					160
Thr	Ile	Cys	Ala	Leu	Ile	Cys	Gly	Arg	Pro	Ile	Val	Lys	Pro	Glu	Tyr
			165					170						175	
Phe	Thr	Glu	Phe	Leu	Lys	Ala	Val	Gln	Ser	Lys	Lys	Gln	Pro	Pro	Gln
		180					185						190		
Ile	Glu	Ser	Phe	Tyr	Pro	Pro	Leu	Asp	Glu	Pro	Ser	Ile	Gly	Ser	Lys
	195						200					205			
Asn	Val	Asp	Leu	Ser	Gly	Arg	Gln	Glu	Arg	Lys	Gln	Ile	Phe	Lys	Gly
	210					215					220				
Lys	Thr	Phe	Ile	Phe	Leu	Asn	Ala	Lys	Gln	His	Lys	Lys	Leu	Ser	Ser
225					230					235					240
Ala	Val	Val	Phe	Gly	Gly	Gly	Glu	Ala	Arg	Leu	Ile	Thr	Glu	Glu	Asn
			245					250						255	
Glu	Glu	Glu	His	Asn	Phe	Phe	Leu	Ala	Pro	Gly	Thr	Cys	Val	Val	Asp
		260					265						270		
Thr	Gly	Ile	Thr	Asn	Ser	Gln	Thr	Leu	Ile	Pro	Asp	Cys	Gln	Lys	Lys
	275					280						285			
Trp	Ile	Gln	Ser	Ile	Met	Asp	Met	Leu	Gln	Arg	Gln	Gly	Leu	Arg	Pro
	290				295					300					
Ile	Pro	Glu	Ala	Glu	Ile	Gly	Leu	Ala	Val	Ile	Phe	Met	Thr	Thr	Lys
305					310					315					320
Asn	Tyr	Cys	Asp	Pro	Gln	Gly	His	Pro	Ser	Thr	Gly	Leu	Lys	Thr	Thr
			325					330						335	
Thr	Pro	Gly	Pro	Ser	Leu	Ser	Gln	Gly	Val	Ser	Val	Asp	Glu	Lys	Leu
		340					345						350		
Met	Pro	Ser	Ala	Pro	Val	Asn	Thr	Thr	Thr	Tyr	Val	Ala	Asp	Thr	Glu
		355				360						365			
Ser	Glu	Gln	Ala	Asp	Thr	Trp	Asp	Leu	Ser	Glu	Arg	Pro	Lys	Glu	Ile
	370					375					380				
Lys	Val	Ser	Lys	Met	Glu	Gln	Lys	His	Gln	Leu	Asn	Cys	Gln	Val	
385					390					395					

<210> 10769  
 <211> 1483  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (50).. (763)

09629469.072800

<400> 10769

```

cttagtggtg tcgggggtcta gtggacagag aagactcttg gccaggcaga tggcttctcg 60
gtggcagaac atggggacct ccgtgcgcgc gagatctctc cagcaccagg agcagctgga 120
ggacagcaag gagctgcagc ctgtggtcag ccatcaggag acctctgtag gggccctggg 180
gtccctgtgc agacagttcc aaaggaggct gccctgaga accgtcaacc tcaacctccg 240
cgcagggccc tcctggaaac gcctggaaac ccagagcca ggtcagcagg gcctccaggc 300
tgcagctcgc tcagctaaga gtgctttggg tgccgtgtcc cagagaatcc aggagtcctg 360
ccaaagtggc accaagtggc tgggtggagac ccagggtgaag gccaggaggc ggaagagagg 420
agcacagaag ggcagtggat ccccaactca cagcctgagc cagaagagca cccggctgtc 480
tggagccgcc cctgcccact cagccgcaga cccctgggag aaggagcatc accgcctctc 540
tgtccggatg ggctcacatg cccacccatt acggcgatca aggcgggagg ctgccttccg 600
gagccctac tcctcaacag agcccctctg ctctcccagc gagtctgaca gtgacctaga 660
gcctgtgggg gcgggaattc agcatctcca gaagctgtcc caagagctag atgaagccat 720
tatggcggaa gagagtgggt acatcgtctc tctcattcat gactgaggaa gtgcctgcag 780
gaaacaagcc ctgtctgacc gccaaggctt catactcaag gatgtctatg cttccccgtg 840
tgcttcctgg aaaaaacccc cgggagtcgt cagtaccctt gggccactgc taacaagcac 900
ctaacaaggg gccagagacc cctgctcca gccacatctg gacccatcag tgactgcctg 960
ccatagcctg agagtgtctt ggggagacct tgcagagggg gagaattgtt ccttctgctt 1020
tcctagggga ctcttgagct tagaaactca tcttacactt gaccttgagc cttctatttg 1080
cctcatctat aacatgaagt gctagcatca gatatttgag agctcttagc tctgtaccgg 1140
gggtgcctggt ttttggggag tcatccgcag agtcactcac ccactgtgtt tctggtgcca 1200
aggctcttga gggccccact ctcatccctc ctttccctac cagggactcg gaggaaggca 1260
taggagatat ttccaggctt acgaccctgg gctcaogggt acctatttat atgctcagtg 1320
cagagcactg tggatgtgcc aggaggggta gccctgttca agagcaattt ctgccctttg 1380
taaattattt aagaaacctg ctttgtcatt ttattagaaa gaaaccagca tgtgactttc 1440
ctagataaca ctgctttctc ataataaaga ctatttgcatt ttg 1483

```

<210> 10770

<211> 238

<212> PRT

<213> Homo sapiens

<400> 10770

```

Met Ala Ser Arg Trp Gln Asn Met Gly Thr Ser Val Arg Arg Arg Ser
 1           5           10           15
Leu Gln His Gln Glu Gln Leu Glu Asp Ser Lys Glu Leu Gln Pro Val
          20           25           30
Val Ser His Gln Glu Thr Ser Val Gly Ala Leu Gly Ser Leu Cys Arg
          35           40           45
Gln Phe Gln Arg Arg Leu Pro Leu Arg Thr Val Asn Leu Asn Leu Arg
          50           55           60
Ala Gly Pro Ser Trp Lys Arg Leu Glu Thr Pro Glu Pro Gly Gln Gln
          65           70           75           80
Gly Leu Gln Ala Ala Ala Arg Ser Ala Lys Ser Ala Leu Gly Ala Val
          85           90           95
Ser Gln Arg Ile Gln Glu Ser Cys Gln Ser Gly Thr Lys Trp Leu Val

```

	100		105		110
Glu Thr Gln Val Lys Ala Arg Arg Arg Lys Arg Gly Ala Gln Lys Gly					
	115		120		125
Ser Gly Ser Pro Thr His Ser Leu Ser Gln Lys Ser Thr Arg Leu Ser					
	130		135		140
Gly Ala Ala Pro Ala His Ser Ala Ala Asp Pro Trp Glu Lys Glu His					
145		150		155	160
His Arg Leu Ser Val Arg Met Gly Ser His Ala His Pro Leu Arg Arg					
	165		170		175
Ser Arg Arg Glu Ala Ala Phe Arg Ser Pro Tyr Ser Ser Thr Glu Pro					
	180		185		190
Leu Cys Ser Pro Ser Glu Ser Asp Ser Asp Leu Glu Pro Val Gly Ala					
	195		200		205
Gly Ile Gln His Leu Gln Lys Leu Ser Gln Glu Leu Asp Glu Ala Ile					
210		215		220	
Met Ala Glu Glu Ser Gly Asp Ile Val Ser Leu Ile His Asp					
225		230		235	

<210> 10771  
 <211> 2226  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (486).. (1703)

<400> 10771

ttcagaaggc	cagccggcag	gaggagccgg	acagcctctc	ctattactgc	gctgctgaga	60
ccaacggggt	gggtgcagcc	tcgggcaccc	cgccctccaa	ggctaccctg	gaggggaagg	120
tggcttcccc	caagcactgt	gttctggctc	ggcccaaagg	gactccccct	ctgccccctg	180
tcgaaaagtc	cagcctggac	cagaagaacc	gggccagccc	tcagcacagt	gccagcggca	240
gcggcaccag	cagccccctg	aaccaaccag	ccgccttccc	ggcgggcctc	ccagacgagc	300
ctagcggcaa	gacgaaggac	gccagcagca	gcagcaagct	cttcagtgcc	aagctggagc	360
agctggccag	cagaagcaac	tcgctgggca	gggcgacggg	cagccactac	gaatgcctct	420
ccccggagcg	ggccgagagc	ctgtcctccg	tgagctcccg	gctgcacgcg	ggcaaggacg	480
gcaccatgcc	ccgcgcgggg	aggagcctgg	gccgcagcgc	cgggacctcg	ccccccagct	540
ccggggcctc	gcccgaaggcc	ggccagtcca	agatctccgc	cgtgagcaga	ctcctcctgg	600
ccagccccag	agcgcacggc	ccgtccgcct	ccaccaccaa	aaccctcagc	ttctccacca	660
agtccctgcc	gcaggcgggtg	ggccagggtc	ccagctcgcc	ccccgggtgg	aagcacacgc	720
cctggtccac	gcagtccctc	agcaggaaca	ggagctcggg	cctggcctcc	aagcttcccc	780
tgcgggccgt	cagcgggcgc	atctcggagc	tgctgcaggg	tggcgcgggc	gccccgggct	840
tgcagctgcg	ggccggggccc	gaggcggagg	cgcgcggggg	ggccctggcc	gaggacgagc	900
ccgcggccgc	gcacctgctc	ccgtcgcctc	acagcaagat	cacgcccccg	cggaggcccc	960
accgctgcag	cagcggccac	ggcagcgaca	acagcagcgt	gctgagcggg	gagctccgcg	1020
cggccatggg	gaagacggcc	ctgttctacc	acagcggcgg	cagcagcggc	tacgagagcg	1080
tgatgcggga	cagcgaaggcc	accggcagcg	cgtcctcggc	gcaggactcc	acgagtgaga	1140

009270" 69462960

acagcagctc cgtggggcggc aggtgccgga gcctcaagac cccgaagaaa cgctccaatc 1200  
caggttctca gagacggagg cttatcccag cactatccct ggacacctct tcccctgtga 1260  
gaaaaccccc caacagcaca ggcgtccgct ggggtggatgg ccccttgcgg agcagcccga 1320  
ggggcccttg ggaacccttt gagattaaag tctatgaaat cgatgacgtg gagcgccctgc 1380  
agcggcgacg aggggggtgcc agcaaggagg ccatgtgctt caatgcaaag ctgaagattc 1440  
tggaacaccg ccagcagagg atcgccgagg tccgcgcgaa gtacgagtgg ctgatgaagg 1500  
agctggaggc gaccaaacag tatctgatgc tggatcccaa caagtggctc agtgaatttg 1560  
acttggagca ggtttgggag ctggattccc tggagtacct ggaggcactg gagtgtgtga 1620  
cggagcgcct ggagagccgt gtcaacttct gcaaggccca tctcatgatg atcacctgct 1680  
tcgacatcac ctccaggcgc cggtagatga gccagacctt tgccttagtg gtcccccgct 1740  
ccccaggact tcagagatgt tgcacgcccc taggccctct gtgctggggc atcaaagaca 1800  
atgaatgagg atgaaggttg gtggcaagtc tggagcgggc gttgagcggg aggcgagttt 1860  
tcttttgttt tctgtaggaa aggtgcaaac gtcaaacacc gtggaaggag aaaaggatgg 1920  
gaagcccagag ggggtgtccaa gccctgtgag actgaaaaag cactttgagg aaccttaaag 1980  
acctgttttg tacataagaa ctgctagcaa aagagacctc actcttctct tgctttcgtg 2040  
agaaaggagg ggcgtggatg taggattgct gtggaaagcg aacacaaaac aaccagaat 2100  
gactgattaa gtgccttgcg aatctttatt attatccaaa catttatgtt catactttct 2160  
tgtgtacaga tgggtgctagt caagatgaaa acaacaaaac aaacaagaaa aacatttttg 2220  
aatgt 2226

<210> 10772  
<211> 406  
<212> PRT  
<213> Homo sapiens

<400> 10772  
Met Pro Arg Ala Gly Arg Ser Leu Gly Arg Ser Ala Gly Thr Ser Pro  
1 5 10 15  
Pro Ser Ser Gly Ala Ser Pro Lys Ala Gly Gln Ser Lys Ile Ser Ala  
20 25 30  
Val Ser Arg Leu Leu Leu Ala Ser Pro Arg Ala His Gly Pro Ser Ala  
35 40 45  
Ser Thr Thr Lys Thr Leu Ser Phe Ser Thr Lys Ser Leu Pro Gln Ala  
50 55 60  
Val Gly Gln Gly Ser Ser Ser Pro Pro Gly Gly Lys His Thr Pro Trp  
65 70 75 80  
Ser Thr Gln Ser Leu Ser Arg Asn Arg Ser Ser Gly Leu Ala Ser Lys  
85 90 95  
Leu Pro Leu Arg Ala Val Ser Gly Arg Ile Ser Glu Leu Leu Gln Gly  
100 105 110  
Gly Ala Gly Ala Arg Gly Leu Gln Leu Arg Ala Gly Pro Glu Ala Glu  
115 120 125  
Ala Arg Gly Gly Ala Leu Ala Glu Asp Glu Pro Ala Ala Ala His Leu  
130 135 140  
Leu Pro Ser Pro Tyr Ser Lys Ile Thr Pro Pro Arg Arg Pro His Arg  
145 150 155 160  
Cys Ser Ser Gly His Gly Ser Asp Asn Ser Ser Val Leu Ser Gly Glu

09629469.072800





tgctatttct	gatatacactt	aaacctttac	aagaaaaaag	gctgtggtga	ctcagtgttc	600
ctataaattc	agaatgtgga	aactactaat	ccaaagcadc	acttctagca	ctgagtatca	660
agacgatcag	cctgaccaa	atattgcaa	gagttttcta	agtctctgaa	gatttttttc	720
tccttgaaca	ctgagtctat	agcagtcagc	aatgtacctt	agccgatccc	tgggaatggg	780
tatggaacag	tagggcttgt	ttccatcctt	tttagagtga	agagatagaa	aattagggct	840
acctagtgtg	ggttcttttt	cagaactatg	tattttctcc	tcactgcatg	atgggtaaaa	900
atgccctggg	ttgaaacaag	aaacattatc	tttccacacc	actgactaaa	acacctgcca	960
gtggtttctt	taggctccac	cttttgctcc	gtaaactgta	gactttcaga	ctgaaatcta	1020
atcttaagtg	acctcaatta	aggtattttc	acaaaaggct	acttatagtg	tagcattatt	1080
gccttaaatac	agaaagccct	gggaagagga	taaaagatat	agaaatgaga	aggctctgaa	1140
gttataggca	tttcttgctg	tttaatagtt	acattatcac	aaaaacaagc	cctattcatg	1200
attgaggact	atggaaatag	tgacttcttg	aggaggcacc	aaactttcct	agaactgggt	1260
actctcagat	agtggctgct	atttcttatt	ctatttcagt	gacgtagggt	ggggctgaat	1320
gtaaaataga	catcatatta	ctaaatagaa	tcctataaaa	tgcaatcaca	ggtgcccggg	1380
agtactagtt	ttaaacattt	ccttaacaag	gagaacaatc	cagcaaaaag	ctttctttct	1440
ctatacagtg	catatctcta	aacttttctt	cctcagtttt	agagaacatc	tgttttatct	1500
ggtggttctt	tgtttgaatg	caaactcata	actttcaagt	ctccggtgca	agagcataat	1560
ctacagatca	tgggcaaaat	ctagccacag	tcctgagagt	ccaggcttct	gggatgcccc	1620
gctgggtata	aaagtcctta	ctaaccctgt	ttcaaattca	gaggtttctt	tggtttagaa	1680
tgccctcaatg	agattttgat	acatccaaga	gag			1713

<210> 10774  
 <211> 2070  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1).. (804)

<400> 10774						
atgcagcaga	tccgccccgc	cttcatccgc	gggcctccgc	accatgcctc	caaccccaac	60
agccccctgt	ccaaccccat	gcttcccggc	atcgggcccc	cgcccggttg	ccccagaaac	120
ctgggccccca	cttccagccc	catgcaccgg	cccatgctat	cgccccacat	ccaccccccg	180
agcacccccca	ccatgcccgg	gaacccccca	ggcctgctgc	cccgcgcgcc	tccgggcgcc	240
ccactgcoga	gtcttccctt	cccgccagtg	agcatgatgc	caaattggccc	gatgcgcgtg	300
ccccagatga	tgaatttcgg	gctgccgtcg	cttgccccgc	tgggtgcgcgc	cccgaccctg	360
ctcgtgccgt	accccgatg	cgtgccccta	ccggtgcccc	tccccatccc	catccctatc	420
cctcacgtca	gcgactccaa	gccccccaag	aagctgctgt	cgctgagga	accggcgggtg	480
agcgagctag	agtcggtcaa	ggagaataac	tgtgcttcca	actgccacct	ggacgggggag	540
gcggccaaaa	agctgatggg	cgaggaggcc	ctggcggggg	gcgacaagtc	agacccgaac	600
cttaataaacc	ccgcggacga	ggaccatgcc	tatgctctgc	ggatgctgcc	caagaccggc	660
tgctgtgatcc	agcctgtgcc	aaaacccgcg	gagaaggctg	ccatggcacc	gtgcatcatc	720
tcctcgcccc	tgctcagcgc	cgggcctgag	gacctggagc	cgccgctcaa	aaggaggtgc	780
ctccgaatta	gaaatcagaa	taagtaaaag	gaacgttcac	tcacagggta	cgctcatgga	840
gagagggcgc	agagcaaacc	atgtcacgcc	atccaatgac	accagctggg	cagctcacca	900
ccccctctgt	ctaaaactca	agcaaataaa	gccgcttctt	gtcattaagc	atctcagagg	960

09629469.02300

```

aagcagccct ccctcgatgg cctctagccc agagaagccc ggcgatcttg gaccaccaa 1020
gcaggcccag ccttcctgct gccaccatct ctgcttctcc ccagaggaac ttagagattt 1080
cacccttggc ttttaaaaaa aacgaaatac cgacaagcca caaggaccaa ttaggtattt 1140
ctccccgccc catcttcaag gctcagcgac tgaggctgga agatgatatg gattggaaca 1200
caaaaaatct ttttttaatc tttttaaaaa ctgctgtggt tttgctgcta cactaagaat 1260
tgtgatttgc attgtacggt tttggacctt tattgttcac gttttgatgg cggagagggg 1320
tggtcctgga ggcccaatgc ttcagagtca tctctgtcct gccgggatg cactttaaat 1380
gaagagttag aatattttat tggctaatat acttttcttg ttatttttac aaaggccacc 1440
tttatccttt ttgatgccat attttcagtg ttacactttt atggctttta attttcgatt 1500
tgacagatgt aagaagcagc atgaatagtt tatactgtgg tttttcagag actgaatgcc 1560
aagagaactc ggtaaagtgt tattcttctc agctttctct ttaaattccc ctaaatagcg 1620
ccccatttgg gaacagagca agagtgttga actgaagacc aaaatgccct caaggtgtaa 1680
aataatccga gggggaatat ttgctgggcg tcaggaaaga ctcaaataaa atttcaacct 1740
tgatggtttt cggatgatcca ggaagtcagt gagacaatct ctotatatgc agagcccttt 1800
catgttaatt agaattggtat ggacaaacca atgaaaacaa gagggaaagt gagaaagatc 1860
acccatgatt ctgtttcact gtttgctttc tctgtcatg gtttaagagaa atgtgcaatt 1920
cgatcctcaa tcagtgggtg gaggataaca gggtagattc acttgtgtgc acttgtacag 1980
ttgtagctgc gattccagaa gtcctctaga gcatgtgtac tggcactgag ttggtgagac 2040
agttgtggag tatcccatc tgatgagtac 2070

```

<210> 10775  
 <211> 268  
 <212> PRT  
 <213> Homo sapiens

<400> 10775

```

Met Gln Gln Ile Arg Pro Pro Phe Ile Arg Gly Pro Pro His His Ala
  1             5             10             15
Ser Asn Pro Asn Ser Pro Leu Ser Asn Pro Met Leu Pro Gly Ile Gly
             20             25             30
Pro Pro Pro Gly Gly Pro Arg Asn Leu Gly Pro Thr Ser Ser Pro Met
             35             40             45
His Arg Pro Met Leu Ser Pro His Ile His Pro Pro Ser Thr Pro Thr
             50             55             60
Met Pro Gly Asn Pro Pro Gly Leu Leu Pro Pro Pro Pro Gly Ala
             65             70             75             80
Pro Leu Pro Ser Leu Pro Phe Pro Pro Val Ser Met Met Pro Asn Gly
             85             90             95
Pro Met Pro Val Pro Gln Met Met Asn Phe Gly Leu Pro Ser Leu Ala
             100            105            110
Pro Leu Val Pro Pro Pro Thr Leu Leu Val Pro Tyr Pro Val Ile Val
             115            120            125
Pro Leu Pro Val Pro Ile Pro Ile Pro Ile Pro Ile Pro His Val Ser
             130            135            140
Asp Ser Lys Pro Pro Lys Lys Leu Leu Ser Pro Glu Glu Pro Ala Val
             145            150            155            160
Ser Glu Leu Glu Ser Val Lys Glu Asn Asn Cys Ala Ser Asn Cys His

```

09629469.072800

				165						170					175				
Leu	Asp	Gly	Glu	Ala	Ala	Lys	Lys	Leu	Met	Gly	Glu	Glu	Ala	Leu	Ala				
			180					185					190						
Gly	Gly	Asp	Lys	Ser	Asp	Pro	Asn	Leu	Asn	Asn	Pro	Ala	Asp	Glu	Asp				
		195					200					205							
His	Ala	Tyr	Ala	Leu	Arg	Met	Leu	Pro	Lys	Thr	Gly	Cys	Val	Ile	Gln				
	210					215					220								
Pro	Val	Pro	Lys	Pro	Ala	Glu	Lys	Ala	Ala	Met	Ala	Pro	Cys	Ile	Ile				
225					230					235				240					
Ser	Ser	Pro	Met	Leu	Ser	Ala	Gly	Pro	Glu	Asp	Leu	Glu	Pro	Pro	Leu				
			245					250					255						
Lys	Arg	Arg	Cys	Leu	Arg	Ile	Arg	Asn	Gln	Asn	Lys								
			260					265											

<210> 10776  
 <211> 1798  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (80).. (1156)

<400> 10776

agcaaagagc	cgaggccggg	cgcgcgaccc	togtcccttct	gcccctggcc	gcacactttg	60
cgcacatctc	tttttctgca	tggtggatat	tatttttcat	tatccttttc	tggttgctat	120
gggtgatcat	tccaagaaga	agcccgggac	ggccatgtgc	gtgggctgcg	ggagtcagat	180
ccacgaccag	tttatcctgc	gggtgtcgcc	cgacctcgag	tggcacgcgg	cctgcctcaa	240
gtgtgccgag	tgcagccagt	acctggacga	gacgtgcacg	tgtttcgtga	gagacgggaa	300
gacctactgc	aagcgggact	acgtcaggct	gttcggcatc	aagtgcgcca	agtgccaggt	360
gggcttcagc	agcagcgacc	tggtgatgag	ggcgcgggac	agcgtgtacc	acatcgagtg	420
cttccgctgc	tccgtgtgca	gccgccagct	gctgcctggg	gacgagttct	cgtgcgggga	480
gcacgagctg	ctctgccgcg	ccgaccacgg	cctcctgctc	gagcgcgccg	cggccggcag	540
cccgcgagc	ccgggcccgc	ttcccgggcg	cccgggcctg	catctgcccc	acgttgggtc	600
gggcccggcag	cccgcgttgc	gcccgcacgt	gcacaagcag	acggagaaga	cgacccgcgt	660
gcggactgtg	ctgaacgaga	agcagctgca	cactctgcgg	acctgctacg	ccgccaaccc	720
gcggccccgac	gctctcatga	aggagcagct	ggtggagatg	accggcctga	gcccgcgggt	780
catccgcgtc	tggttccaga	acaagcgtg	caaggacaag	aagaaatcca	ttctcatgaa	840
gcagctgcag	cagcagcagc	acagcgacaa	gacgagcctt	cagggactga	ctgggacgcc	900
cctgtgtggcg	ggcagtccca	tccgccatga	gaacgccttg	cagggcagcg	cagtggaggt	960
gcagacgtac	cagccgccgt	ggaaggcgct	cagcgagttt	gocctccaga	gcgacctgga	1020
ccaacccgcc	ttccaacagc	tggtctcctt	ctccgagttc	ggctccctag	gcaactcctc	1080
cggcagcgac	gtgacctccc	tgtcctcgca	gtccccggac	acccccaaaca	gtatggtgcc	1140
gagtcccgtg	gagacgtgag	ggggacccct	ccctgccagc	ccgcggaacct	cgcattgctc	1200
ctgcatgaga	ctcaccatg	ctcaggccat	tccagttccg	aaagctctct	cgccttcgta	1260
attattctat	tgttatttat	gagagagtac	cgagagacac	ggtctggaca	gcccaggcgc	1320
ccaggatgca	acctgctttc	accagactgc	agaccocctg	tccgaggact	cttagttttt	1380

0962946.0.2800

caaaaccaga atctgggact taccaggggt agctctgccc tctcctctcc tctctacgtg 1440  
gccgcccgtc tgtctctcca cgcgccacct gtgtcccat ctcggccggc cgggagctcg 1500  
cccacgcgga ccccgccct gccccagctc agcgtccct ggcggcttcg cccgggctcc 1560  
tagcggggaa aaggaagggg ataactcaga ggaacagaca ctcaaactcc caaagcgcg 1620  
gattgctggg aaacagtaga aaccagactt gccttgaaag tgtttaagtt attcgacgga 1680  
ggacagagta tgtgagcctt tgccgaacaa acaaacgtaa gttattgtta tttattgtga 1740  
gaacagccag ttcatagtgg gacttgtatt ttgatcttaa taaaaaataa taaccggg 1798

<210> 10777

<211> 359

<212> PRT

<213> Homo sapiens

<400> 10777

Met	Val	Asp	Ile	Ile	Phe	His	Tyr	Pro	Phe	Leu	Gly	Ala	Met	Gly	Asp	1	5	10	15
His	Ser	Lys	Lys	Lys	Pro	Gly	Thr	Ala	Met	Cys	Val	Gly	Cys	Gly	Ser	20	25	30	
Gln	Ile	His	Asp	Gln	Phe	Ile	Leu	Arg	Val	Ser	Pro	Asp	Leu	Glu	Trp	35	40	45	
His	Ala	Ala	Cys	Leu	Lys	Cys	Ala	Glu	Cys	Ser	Gln	Tyr	Leu	Asp	Glu	50	55	60	
Thr	Cys	Thr	Cys	Phe	Val	Arg	Asp	Gly	Lys	Thr	Tyr	Cys	Lys	Arg	Asp	65	70	75	80
Tyr	Val	Arg	Leu	Phe	Gly	Ile	Lys	Cys	Ala	Lys	Cys	Gln	Val	Gly	Phe	85	90	95	
Ser	Ser	Ser	Asp	Leu	Val	Met	Arg	Ala	Arg	Asp	Ser	Val	Tyr	His	Ile	100	105	110	
Glu	Cys	Phe	Arg	Cys	Ser	Val	Cys	Ser	Arg	Gln	Leu	Leu	Pro	Gly	Asp	115	120	125	
Glu	Phe	Ser	Leu	Arg	Glu	His	Glu	Leu	Leu	Cys	Arg	Ala	Asp	His	Gly	130	135	140	
Leu	Leu	Leu	Glu	Arg	Ala	Ala	Ala	Gly	Ser	Pro	Arg	Ser	Pro	Gly	Pro	145	150	155	160
Leu	Pro	Gly	Ala	Arg	Gly	Leu	His	Leu	Pro	Asp	Ala	Gly	Ser	Gly	Arg	165	170	175	
Gln	Pro	Ala	Leu	Arg	Pro	His	Val	His	Lys	Gln	Thr	Glu	Lys	Thr	Thr	180	185	190	
Arg	Val	Arg	Thr	Val	Leu	Asn	Glu	Lys	Gln	Leu	His	Thr	Leu	Arg	Thr	195	200	205	
Cys	Tyr	Ala	Ala	Asn	Pro	Arg	Pro	Asp	Ala	Leu	Met	Lys	Glu	Gln	Leu	210	215	220	
Val	Glu	Met	Thr	Gly	Leu	Ser	Pro	Arg	Val	Ile	Arg	Val	Trp	Phe	Gln	225	230	235	240
Asn	Lys	Arg	Cys	Lys	Asp	Lys	Lys	Lys	Ser	Ile	Leu	Met	Lys	Gln	Leu	245	250	255	
Gln	Gln	Gln	Gln	His	Ser	Asp	Lys	Thr	Ser	Leu	Gln	Gly	Leu	Thr	Gly				

09629469.072800

	260		265		270										
Thr	Pro	Leu	Val	Ala	Gly	Ser	Pro	Ile	Arg	His	Glu	Asn	Ala	Val	Gln
	275		280		285										
Gly	Ser	Ala	Val	Glu	Val	Gln	Thr	Tyr	Gln	Pro	Pro	Trp	Lys	Ala	Leu
	290		295		300										
Ser	Glu	Phe	Ala	Leu	Gln	Ser	Asp	Leu	Asp	Gln	Pro	Ala	Phe	Gln	Gln
305					310					315					320
Leu	Val	Ser	Phe	Ser	Glu	Ser	Gly	Ser	Leu	Gly	Asn	Ser	Ser	Gly	Ser
			325						330					335	
Asp	Val	Thr	Ser	Leu	Ser	Ser	Gln	Leu	Pro	Asp	Thr	Pro	Asn	Ser	Met
			340					345					350		
Val	Pro	Ser	Pro	Val	Glu	Thr									
			355												

<210> 10778  
 <211> 1366  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (75).. (887)

<400> 10778

cttcgctcta	gctgggaggg	tgacggcccg	cgggcgtaag	cggactgcag	ccgcgagctc	60
ctggaggcgg	cgggatggag	gcggcggccg	agcctggaaa	cctggccggc	gtcaggcaca	120
tcatcctggt	cctctcagga	aagggggggc	ttgggaaaag	caccatctcc	acggagctgg	180
ccctggcaact	gcgccatgca	ggcaagaagg	tgggaatcct	ggatgtggac	ctgtgtggcc	240
ccagtatacc	ccgcatgctc	ggggcgcagg	gcagggctgt	gcaccagtgc	gaccgcggct	300
gggcacccgt	cttcctggac	cgggagcaga	gcattctcgt	catgtctgtg	ggcttcctgc	360
tggagaagcc	ggacgaggcc	gtggtgtgga	gaggcccaa	gaaaaacgcg	ctgataaagc	420
agtttgtgtc	cgacgtggcc	tgggggggag	tggactacct	ggtggtggac	acgccccggg	480
ggacctccga	tgagcacatg	gccaccatag	aagccctgcg	tccctaccag	cccctggggg	540
ccctcgtggt	caccacgccc	caggcgggtg	ccgtggggga	cgtgaggcgc	gagctgacct	600
tctgtaggaa	gacgggcttg	cgggtgatgg	gaatcgtgga	gaatatgagc	ggcttcacct	660
gcccacactg	cacggagtgc	accagcgtct	tctccagggg	cggcggagag	gagctggccc	720
agctcgccgg	ggtgcccttc	ttaggctccg	tgcccctgga	ccctgcgctc	atgaggaccc	780
tggaggaggg	ccacgactcc	atccaggagt	tcccggggag	ccccgccttc	gctgcaactca	840
cctccatagc	ccagaagatt	ctggacgcga	cgcccgcgtg	cctccccctga	ctaaggccac	900
cttgacagcc	ctttccaggg	ccaccaaggg	ctctgtctca	gcctctcaga	gaaacagagg	960
cctgggctcg	gttcccgggc	cctgcagggg	caggcccagg	cagcgtcagc	gggagagctt	1020
ctccccgacc	agcccagccc	caggatgtgt	cgcaccagca	gctctgcctg	gttggcctgc	1080
agtgcggtgg	totgcgtgct	ctgcagctgt	gagacggggg	cggcctgggc	totcttccca	1140
tccatgttgc	ctacctgtgc	ccctggcagc	cgcgtgtcca	cacagttagc	ggagcgcagg	1200
acttotgoag	tcctcaggtg	accccggggc	tccagcacc	tgggtcgtgt	tcatctgtgt	1260
ttagctcggg	gagtgcccc	taagggggcg	aactgacctc	aggcatgtct	tgtaactgta	1320
gaggcgccctg	ccattaaacg	tgtccgctgc	tgtggcgaca	gatctg		1366

003220.69462960

<210> 10779  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<400> 10779

Met	Glu	Ala	Ala	Ala	Glu	Pro	Gly	Asn	Leu	Ala	Gly	Val	Arg	His	Ile
1				5					10					15	
Ile	Leu	Val	Leu	Ser	Gly	Lys	Gly	Gly	Val	Gly	Lys	Ser	Thr	Ile	Ser
			20					25					30		
Thr	Glu	Leu	Ala	Leu	Ala	Leu	Arg	His	Ala	Gly	Lys	Lys	Val	Gly	Ile
			35				40						45		
Leu	Asp	Val	Asp	Leu	Cys	Gly	Pro	Ser	Ile	Pro	Arg	Met	Leu	Gly	Ala
	50					55					60				
Gln	Gly	Arg	Ala	Val	His	Gln	Cys	Asp	Arg	Gly	Trp	Ala	Pro	Val	Phe
65					70					75					80
Leu	Asp	Arg	Glu	Gln	Ser	Ile	Ser	Leu	Met	Ser	Val	Gly	Phe	Leu	Leu
				85					90					95	
Glu	Lys	Pro	Asp	Glu	Ala	Val	Val	Trp	Arg	Gly	Pro	Lys	Lys	Asn	Ala
			100					105					110		
Leu	Ile	Lys	Gln	Phe	Val	Ser	Asp	Val	Ala	Trp	Gly	Glu	Leu	Asp	Tyr
		115					120					125			
Leu	Val	Val	Asp	Thr	Pro	Pro	Gly	Thr	Ser	Asp	Glu	His	Met	Ala	Thr
	130					135					140				
Ile	Glu	Ala	Leu	Arg	Pro	Tyr	Gln	Pro	Leu	Gly	Ala	Leu	Val	Val	Thr
145					150					155					160
Thr	Pro	Gln	Ala	Val	Ser	Val	Gly	Asp	Val	Arg	Arg	Glu	Leu	Thr	Phe
				165					170					175	
Cys	Arg	Lys	Thr	Gly	Leu	Arg	Val	Met	Gly	Ile	Val	Glu	Asn	Met	Ser
			180					185					190		
Gly	Phe	Thr	Cys	Pro	His	Cys	Thr	Glu	Cys	Thr	Ser	Val	Phe	Ser	Arg
		195					200					205			
Gly	Gly	Gly	Glu	Glu	Leu	Ala	Gln	Leu	Ala	Gly	Val	Pro	Phe	Leu	Gly
	210					215					220				
Ser	Val	Pro	Leu	Asp	Pro	Ala	Leu	Met	Arg	Thr	Leu	Glu	Glu	Gly	His
225					230				235						240
Asp	Ser	Ile	Gln	Glu	Phe	Pro	Gly	Ser	Pro	Ala	Phe	Ala	Ala	Leu	Thr
				245					250					255	
Ser	Ile	Ala	Gln	Lys	Ile	Leu	Asp	Ala	Thr	Pro	Ala	Cys	Leu	Pro	
			260					265					270		

<210> 10780  
 <211> 2124  
 <212> DNA  
 <213> Homo sapiens

0032/0.69462960

003240.69462960

<400> 10780

```

acaacgctgc cgccgcgctc cgtgggcaac tcctactact gctgggctgg gctgggctgg 60
gctgggctgc gccggagctc gcctgcacag atcagctccg gagaggggag aaccacgctc 120
ctcggaccaaa gcctcgggag ctaagccaga tctgccagtg agcctcaggc tttaggaact 180
gaagagtgtt tctgaaagat ctatccagca ctccgatggc cagcaacaac accgccagca 240
tagcacaagc caggaagctg gtagagcagc ttaagatgga agccaatatc gacaggataa 300
aggtgtccaa ggcagctgca gatttgatgg cctactgtga agcacatgcc aaggaagacc 360
ccctcctgac ccctgttccg gcttcagaaa acccgtttag ggagaagaag tttttctgtg 420
ccatccttta agtctttgag aggggcctga agagcctccg ggctcctggg acattgatgt 480
agagttttta gtgaagtggg caccctttcta gtccacggca tttgaagaga gcgaggagaa 540
ccattctgga aactctaggc tatgcatgtt taaagatctg gtcccttta tgagaatgca 600
agccgatcca catcctgact taagagatct gattctgacg aactgcctgg aggaggggaa 660
tatataaaaa taaaattggt gtcacttctt ttctgtatc cccagcccc ccccccaaa 720
atcctcatgt ttctgcttca tattttgaaa aataacaatt aaaacagaca gctgtactga 780
ggtaagatat gtgtgacctt cttggaatga atattgtctt tagaataccc tttgataagc 840
tgagctgtcc cgtgtagatg caattcggtt taatggcatt gatgtatagt cactgtgcct 900
ttctttttct ttcttccttc tcctctaccc ctctctccac ccctcccat tagagtagtg 960
tgagagataag gctggactgg tctatcagat tgaactcaa gaatgatcac aaaaaatgtt 1020
tagggagatg ttccccgtgg tgtatcctca tggtaacaac gacaaaaaat gccggttgct 1080
tgtgttctct ttctactatt cctaacatgt gtacatgata gttttgattc tgcaagtaaa 1140
agtaaactct gtgttgtgac tgggtgctttc atatatattgt gacaattttt gagtaattatt 1200
gcatgaaaat gtccctatgt tacatccatt cagaagtttt gttgttttac tctaaagctg 1260
ggaaaaggaaa tgagagggaa aagaccccgaggagggaaga aaatctcagt attttgaaaa 1320
ttgagattac ttcagagcct tagccacacc taaaatacct cctagttaat agtggtataa 1380
atgcctcttc aatacgtttt ccagaatcca aagcattttg gtttatccag gaccagggc 1440
agcacagctg tcaccaagca ggagagttaa ggattcacca tgagctggga aatgcttttg 1500
ccatgagtat gagcaaattc cctctttccc tgaatcatgg acattctaga ttaaaagaac 1560
attttttgtg ctcttaacaa gaaaaccatg gccctccttt gttcaagtat cacaagaaat 1620
aaaccacag ctccagagaa ggtgaccatt ctcagaactc cagctattca ctctccaggg 1680
agaaggacct caaatcgcca ctctttgggc ggcagggtgcg gtccccacgg cgggctctac 1740
gaggaagagt tctggctctt ttgtccactg agatgggtctt ggtttttcac ttaacaaatt 1800
ttttaatgga atctttgttt ttgttctcca tcttgtttgt tagagtctct cggcctttat 1860
ttacaaattc cttgcaacta gagcgctcct tccccagat atggtagtga gagtaatttt 1920
tcattgtagc tgtagtctcc atcagtaaca gcaggccctg gaagacttga tcaccttttt 1980
ctgtgtcatt ttcagtcaaa gagggcctct cttacatctt gtttgctttc aaatcccaaa 2040
atatcatctc catctcccaa ttaattttat tctctctttc ctctgtattc gctttctcct 2100
gttttttttt ttaaaaaaag catg 2124

```

<210> 10781

<211> 1817

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (747).. (1151)

<400> 10781

```

acaccatgcc gactgtcagc gtgaagcgtg atctgtcttt ccaagccctg ggccgcacct 60
aactgacga agaatttgat gaactatgtt ttgaatttgg tctggagctt gatgaaattg 120
ctccgtagaa tttgtgacag ccctggctga cctccgagca gaggctagct gtcccatctg 180
tctggactac ttgaaagacc cagtgaccat cagctgtggg cataacttct gtctctcctg 240
catcattatg tcctggaagg atctagatga tagtttcccc tgcccccttt gccacttgctg 300
ctgtccagaa aggaaattta taagcaatcc ccagctgggt agtttgactg aaattgctaa 360
gcaactccag ctaagaagca agaggaagag gcaggaagag aagcatgtgt gtaagaagca 420
taatcaggtt ttgactttct tctctcagaa agacctagag cttttatgtc caaggtgcag 480
tttgtccact gatcaccagc atcgtctgtt ttggcccata aagaaggctg cctcctatca 540
ggaaaaaact ggagcaatac aatgcaccgt ggaaggagag agtggaacta attgaaaaag 600
tcataactat acaaaccaga aaatcactgg aactgaagaa aaaggtaaaa catacggcag 660
aagaagtcaa gtctgaattt gagcaactta ggttatttct gcaaaatgag caagagactg 720
tttttgggca attacaagat gacgagatgg atatttttagc acaactaaat gaaagcctaa 780
caaaaatttc agattatacc tcctcattaa aatatctact aaagaagata gagagcatat 840
atgtgaagtc agaactggaa ttactggctg atgttaagga tatctatcac agacataaga 900
atttaaaatt ccctaaacct tttttattca aattaaaaga atatggttac catctgtctc 960
cacaatatgt tggccaaaac aaaattatca agcgatttca agtagatgta attctagatc 1020
ctgaagcagc acatcgtaaa cttatagtct cagaagatag aaaaactgtg cgatatggaa 1080
atacaacaca aaacttacct cataacccaa gaagatttta tctgctccca gctgttctgg 1140
gttctaaggg ataaaattgt ggcaggcagt accgggaagt agaagttaa gacatgcctg 1200
aatggattct tgggtgtctgt agtgactctc ctcccacaag gaggaagagt caaccaattt 1260
tagtacagga tggattatgg agaatttgggt aatctagtcg gaataattat attgtattgg 1320
gccataagga aattattctg ctgccaaaag taacacctag taagattggc atttttttta 1380
gactgtgaaa tgaatgaggt ttctttttat aatttgaatg atagatctct tctctgtact 1440
tttaattgat attttacagg agaactttgg cttatttttt atactggaac tgactcaaaa 1500
cctcttaaaa tttctacagt aacagattct gtatttttct tcacctagta gacataactg 1560
agccagttaa tctagttttg gccattctgt attttgtccg gttttttotca taaaaaaaca 1620
atatttttta tctcaatttc agcaacttcc aaaaaatgtg attatgggac ctactttata 1680
ataaattatg gggtaaatga caaagtactt tagaaattct atggtaagat acttgaaaaa 1740
tatattactg aaggaacgta ttatgtaaga aaatctatta cttttgtaat tgccaataaa 1800
agcccaattt ttttctc                                     1817

```

<210> 10782

<211> 135

<212> PRT

<213> Homo sapiens

<400> 10782

```

Met Asp Ile Leu Ala Gln Leu Asn Glu Ser Leu Thr Lys Phe Ser Asp
 1             5             10             15
Tyr Thr Ser Ser Leu Lys Tyr Leu Leu Lys Lys Ile Glu Ser Ile Tyr
          20             25             30
Val Lys Ser Glu Leu Glu Leu Leu Ala Asp Val Lys Asp Ile Tyr His
          35             40             45
Arg His Lys Asn Leu Lys Phe Pro Lys Pro Phe Leu Phe Lys Leu Lys

```

0962946.0.2300



50		55		60
Glu Tyr Gly Tyr His Leu Ser Pro Gln Tyr Cys Gly Gln Asn Lys Ile				
65		70		75
Ile Lys Arg Phe Gln Val Asp Val Ile Leu Asp Pro Glu Ala Ala His				80
	85		90	
Arg Lys Leu Ile Val Ser Glu Asp Arg Lys Thr Val Arg Tyr Gly Asn				95
	100		105	
Thr Thr Gln Asn Leu Pro His Asn Pro Arg Arg Phe Tyr Leu Leu Pro				110
	115		120	
Ala Val Leu Gly Ser Lys Gly			125	
130		135		

<210> 10783  
 <211> 1668  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (28).. (1572)

<400> 10783

tcgggctccg	cgggcggg	ggcggacatg	goggccaaca	tgtaccgggt	cggagattat	60
gtctactttg	agaattcctc	cagcaaccca	tacctaataa	gaaggataga	agaactcaac	120
aagactgcaa	gtggcaacgt	ggaagcaaaa	gtagtatgct	tttatagacg	acgtgatatt	180
tccaacacac	ttataatgct	cgcagataag	catgctaaag	aaattgagga	agaatctgaa	240
acaacagttg	aggctgactt	gaccgataag	cagaaacatc	agttgaaaca	tagggaactc	300
tttttgtcac	gccagtatga	atctctgccc	gcaacacata	tcaggggaaa	gtgcagtgtt	360
gcccttctga	atgagacaga	atcagtattg	tcatatcttg	ataaggagga	tacctcttc	420
tactcattgg	tctatgaccc	ctcattgaaa	acactattag	ctgacaaagg	tgaaatcaga	480
gtgggacctg	gatatcaagc	agacattcca	gaaatgctgt	tagaaggaga	atcagatgag	540
agggaacaat	caaaattgga	agttaaagtt	tgggatccaa	atagcccact	tacggatcga	600
cagattgacc	agtttttagt	tgtagcacgt	gctgttggga	cattcgccag	agccctggat	660
tgcagcagtt	ctgtgaggca	gcctagtttg	catatgagtg	ctgctgcagc	ttcccgagac	720
atcaccttgt	ttcacgctat	ggatacattg	tatagacaca	gctatgattt	gagcagtgcc	780
attagtgtct	tagtaccact	cggaggacct	gttttatgca	gagatgaaat	ggaggaatgg	840
tcagcctctg	aagctagctt	atttgaagag	gcactggaaa	aatatggcaa	agacttcaat	900
gacatacggc	aagattttct	tccttggaaa	tcattgacta	gcatcattga	atattattac	960
atgtggaaaa	ctactgacag	atatgtgcaa	cagaaacgtc	taaaagcagc	agaagctgag	1020
agtaaactga	aacaagtata	tatcccaacc	tacagcaaac	caaatcccaa	ccaaatatcc	1080
actagtaatg	ggaagcctgg	tgctgtgaat	ggagctgtgg	ggaccacgtt	ccagcctcag	1140
aatcctctct	tagggagagc	ctgtgagagc	tgctatgcta	cacagtctca	ccagtgggtat	1200
tcttggggcc	cacctaatat	gcagtgtaga	ttatgtgcta	tttgttggct	ttattgaaa	1260
aaatatggag	gcttgaaaat	gccacccag	tcagaagaag	agaagttatc	tcctagccca	1320
actacagagg	accctcgtgt	tagaagtcac	gtgtcccgcc	aggccatgca	gggaatgcc	1380
gtccgaaaca	ctgggagtc	aaagtctgca	gtgaagaccc	gccaagcttt	cttccttc	1440
actacatatt	tcacaaaatt	tgctcgtcag	gtctgcaaaa	ataccctccg	gctgcggcag	1500

09529459.072800

gcagcaagac ggccgtttgt tgctattaat tatgctgcca ttagggcaga atgtaagatg 1560  
cttttaaatt cttaacctta tatgttggtgc ttctgaccat tttctctttt cctctctttc 1620  
cttttttttt tgtttgtttg ttgcaataa acataagttc ttgtgtac 1668

<210> 10784

<211> 515

<212> PRT

<213> Homo sapiens

<400> 10784

Met	Ala	Ala	Asn	Met	Tyr	Arg	Val	Gly	Asp	Tyr	Val	Tyr	Phe	Glu	Asn	
1				5				10						15		
Ser	Ser	Ser	Asn	Pro	Tyr	Leu	Ile	Arg	Arg	Ile	Glu	Glu	Leu	Asn	Lys	
			20					25					30			
Thr	Ala	Ser	Gly	Asn	Val	Glu	Ala	Lys	Val	Val	Cys	Phe	Tyr	Arg	Arg	
		35				40						45				
Arg	Asp	Ile	Ser	Asn	Thr	Leu	Ile	Met	Leu	Ala	Asp	Lys	His	Ala	Lys	
	50					55					60					
Glu	Ile	Glu	Glu	Glu	Ser	Glu	Thr	Thr	Val	Glu	Ala	Asp	Leu	Thr	Asp	
65					70					75					80	
Lys	Gln	Lys	His	Gln	Leu	Lys	His	Arg	Glu	Leu	Phe	Leu	Ser	Arg	Gln	
			85					90						95		
Tyr	Glu	Ser	Leu	Pro	Ala	Thr	His	Ile	Arg	Gly	Lys	Cys	Ser	Val	Ala	
			100					105						110		
Leu	Leu	Asn	Glu	Thr	Glu	Ser	Val	Leu	Ser	Tyr	Leu	Asp	Lys	Glu	Asp	
		115					120					125				
Thr	Phe	Phe	Tyr	Ser	Leu	Val	Tyr	Asp	Pro	Ser	Leu	Lys	Thr	Leu	Leu	
	130					135						140				
Ala	Asp	Lys	Gly	Glu	Ile	Arg	Val	Gly	Pro	Arg	Tyr	Gln	Ala	Asp	Ile	
145					150					155					160	
Pro	Glu	Met	Leu	Leu	Glu	Gly	Glu	Ser	Asp	Glu	Arg	Glu	Gln	Ser	Lys	
			165						170					175		
Leu	Glu	Val	Lys	Val	Trp	Asp	Pro	Asn	Ser	Pro	Leu	Thr	Asp	Arg	Gln	
			180					185					190			
Ile	Asp	Gln	Phe	Leu	Val	Val	Ala	Arg	Ala	Val	Gly	Thr	Phe	Ala	Arg	
	195						200					205				
Ala	Leu	Asp	Cys	Ser	Ser	Ser	Val	Arg	Gln	Pro	Ser	Leu	His	Met	Ser	
	210					215						220				
Ala	Ala	Ala	Ala	Ser	Arg	Asp	Ile	Thr	Leu	Phe	His	Ala	Met	Asp	Thr	
225					230					235					240	
Leu	Tyr	Arg	His	Ser	Tyr	Asp	Leu	Ser	Ser	Ala	Ile	Ser	Val	Leu	Val	
			245						250					255		
Pro	Leu	Gly	Gly	Pro	Val	Leu	Cys	Arg	Asp	Glu	Met	Glu	Glu	Trp	Ser	
		260						265					270			
Ala	Ser	Glu	Ala	Ser	Leu	Phe	Glu	Glu	Ala	Leu	Glu	Lys	Tyr	Gly	Lys	
	275						280					285				
Asp	Phe	Asn	Asp	Ile	Arg	Gln	Asp	Phe	Leu	Pro	Trp	Lys	Ser	Leu	Thr	

09629469.072800

290		295		300
Ser Ile Ile Glu Tyr Tyr Tyr Met Trp Lys Thr Thr Asp Arg Tyr Val				
305		310		315
Gln Gln Lys Arg Leu Lys Ala Ala Glu Ala Glu Ser Lys Leu Lys Gln				
		325		330
Val Tyr Ile Pro Thr Tyr Ser Lys Pro Asn Pro Asn Gln Ile Ser Thr				
		340		345
Ser Asn Gly Lys Pro Gly Ala Val Asn Gly Ala Val Gly Thr Thr Phe				
		355		360
Gln Pro Gln Asn Pro Leu Leu Gly Arg Ala Cys Glu Ser Cys Tyr Ala				
		370		375
Thr Gln Ser His Gln Trp Tyr Ser Trp Gly Pro Pro Asn Met Gln Cys				
385		390		395
Arg Leu Cys Ala Ile Cys Trp Leu Tyr Trp Lys Lys Tyr Gly Gly Leu				
		405		410
Lys Met Pro Thr Gln Ser Glu Glu Glu Lys Leu Ser Pro Ser Pro Thr				
		420		425
Thr Glu Asp Pro Arg Val Arg Ser His Val Ser Arg Gln Ala Met Gln				
		435		440
Gly Met Pro Val Arg Asn Thr Gly Ser Pro Lys Ser Ala Val Lys Thr				
		450		455
Arg Gln Ala Phe Phe Leu His Thr Thr Tyr Phe Thr Lys Phe Ala Arg				
465		470		475
Gln Val Cys Lys Asn Thr Leu Arg Leu Arg Gln Ala Ala Arg Arg Pro				
		485		490
Phe Val Ala Ile Asn Tyr Ala Ala Ile Arg Ala Glu Cys Lys Met Leu				
		500		505
Leu Asn Ser				510
		515		

<210> 10785  
 <211> 1587  
 <212> DNA  
 <213> Homo sapiens

<400> 10785  
 tatgcacagg cacacaagaa ttgtgggcag atgagtgaga ttgaggccaa ggtccgctac 60  
 gtgaagctag cccgttctct caagacttac ggtgtctcct tcttcccggg gaaggtaggt 120  
 tatggaccct tttcactgcc ctcttggttt cccactcttg cccttttctg tctctgaaag 180  
 tctctggcct tgccctcagt cacatctccc accattccct aagattccca ttctcttcct 240  
 tgctctgacc tcatgaaaac ctgcctgtca tcagccctac accaccactt ccctccctac 300  
 cctgcatttt cccttgtccg ttagccctcc oggcccacctc aacatccctt atggctgcaa 360  
 gctgatctga tcattcacct ctcatattgac ctttgacctg taacaccaac accaacctct 420  
 gcctcatagg aaaaaatgaa agggaagaac aagctagtgc ccaggcttct gggcatcacc 480  
 aaggagtgtg tgatgcgagt ggatgagaag accaaggaag tgatccagga gtggaacctc 540  
 accaacatca aacgctgggc tgcgtctccc aaaagcttca ccctggtaag tctggggact 600  
 ataacaagaa agtgcttttg gagtttcatt aaaggggcag ctgcagaggt ctcttcctc 660

09629469.072300

tcttggggta	agtatactga	gtattactcc	agaaaaaaag	gaggtttagag	tagatggaga	720
atcttcctct	gggagagtgt	gaggcttaaa	tgaaacggat	gatggactta	ttctttaaaa	780
tcagcagaac	aaaaatctca	tcagcaagct	gagatcacag	gaattcttgt	aggtgtggtg	840
aaaggaaaaa	tgtgataacc	tccctgtttc	agcagcagct	atatacagtg	aatttttgac	900
tttatattat	agggttatga	attgaaaact	gatatcaact	tgataaagta	ccctaattgac	960
acaaatacaa	attataggaa	atgctgtttt	ttcccttttg	gatactacag	ccaaccttaa	1020
agtgtggcca	ttttatgcca	aattattatat	cctctcaatt	ttatcatcag	agtaaaaata	1080
agagacttcc	taaatgatat	gtatttgaaa	ctgtgtagtg	tagaggccac	tcctcagaag	1140
taaaaaattt	ccctccaagg	agaaaaataaa	gaggagggtt	aagaaagggt	ggcatcttcc	1200
aagagggccg	ttgccacggg	aaggcatctc	atcagctcaa	ccttgggcct	cccatcctag	1260
ccatttccat	cctggataga	tttgagcttt	ccctctgagt	cccccaactg	tcaccctagg	1320
attttggaga	ttaccaagat	ggctattact	cagtacagac	aactgaaggg	gagcagattg	1380
cacagctcat	tgccggctac	atcgatatca	tcctgaagaa	ggtgagcact	gcctgcccta	1440
gccttctcct	tatcgctctt	tgccctctcc	acaagccagt	cctttagaaa	tgggcactca	1500
gattgcttga	acctggggagg	cggagggttgc	aatgagccga	gatcttgcct	ctgcactcca	1560
gcctgggtga	cagagccctt	tcttgtc				1587

<210> 10786  
 <211> 1513  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (221)..(1411)

<400> 10786						
gtgcatttgt	gttgtggggg	catgggggtgc	atttgtgtgt	atatatgtgt	ggatgtaggg	60
tgcgtttgtc	tgtgtgtatt	tgtgtgggca	tggagtgc	ttgcgttgcg	ggggtgtgga	120
gtgtgtttgt	gtgtgtgcac	acgcacatgg	ttctcatggt	cctcccgttt	tcaactgaac	180
ctgtaattag	ctcctcagag	accagggtttc	aagacaacag	atgaattgtg	aaagagagca	240
gctaaggggt	aatcaggaag	cagccgctgc	ccctgacaca	atggctcagc	cttacgcttc	300
ggcccagttt	gctccccgc	agaacgggtat	ccccgcggaa	tacacggccc	ctcatcccca	360
ccccgcgcca	gagtacacag	gccagaccac	ggttcccag	cacacattaa	acctgtaccc	420
tcccgccag	acgcactccg	agcagagccc	ggcggacacg	agcgtcaga	cgtctcttg	480
caccgccaca	caggcagatg	acgcagcacc	gacggatggc	cagccccaga	cacaaccttc	540
tgaaaacacg	gaaaacaagt	ctcagcccaa	gcggctgc	gtctccaata	ttcccttcag	600
gttccgggat	ccggacctca	gacaaatgtt	tgggtcaattt	ggtaaaatct	tagatgttga	660
aattattttt	aatgagcgag	gctcaaagg	atttggtttc	gtaactttcg	aaaatagtc	720
cgatgcggac	agggcgagg	agaaattaca	cggcaccgtg	gtagagggcc	gtaaaatcga	780
ggtaaaataat	gccacagcac	gtgtaatgac	aaataaaaag	accgtcaacc	cttatacaaaa	840
tggctggaaa	ttgaatccag	ttgtgggtgc	agtctacagt	cccgaattct	atgcaggcac	900
ggtcctgttg	tgccaggcca	accaggagg	atcttccatg	tacagtggcc	ccagttcact	960
tgtatatact	tctgcaatgc	caggcttccc	gtatccagca	gccaccggcg	cggccgccta	1020
ccgagggg	cacctgcgag	gccgcggctg	caccgtgtac	aacaccttca	gggcccgggc	1080
gccccgcgcc	ccgatcccgg	cctacggcgg	tgttgtttac	caggatggat	tttatgggtg	1140
agacatttat	ggtggttatg	ctgcataccg	ctacgccccag	cctacccctg	ccactgccgc	1200

09629469.072800



Arg Gly Arg Gly Arg Thr Val Tyr Asn Thr Phe Arg Ala Ala Ala Pro  
275 280 285  
Pro Pro Pro Ile Pro Ala Tyr Gly Gly Val Val Tyr Gln Asp Gly Phe  
290 295 300  
Tyr Gly Ala Asp Ile Tyr Gly Gly Tyr Ala Ala Tyr Arg Tyr Ala Gln  
305 310 315 320  
Pro Thr Pro Ala Thr Ala Ala Ala Tyr Ser Asp Ser Tyr Gly Arg Val  
325 330 335  
Tyr Ala Ala Asp Pro Tyr His His Ala Leu Ala Pro Ala Pro Thr Tyr  
340 345 350  
Gly Val Gly Ala Met Asn Ala Phe Ala Pro Leu Thr Asp Ala Lys Thr  
355 360 365  
Arg Ser His Ala Asp Asp Val Gly Leu Val Leu Ser Ser Leu Gln Ala  
370 375 380  
Ser Ile Tyr Arg Gly Gly Tyr Asn Arg Phe Ala Pro Tyr  
385 390 395

<210> 10788  
<211> 1712  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (485).. (1249)

<400> 10788  
ctcacgcagc caacatggct ccagtgaggc acgttggtggc ggatgctggg gctttcctgc 60  
ggcatgcggc tctgcaggac atcggaaga acatttacac catccgggag gtggtcactg 120  
agattcggga caaggccaca cgcaggcggc tcgctgtcct gccctacgag ctgcggttca 180  
aggagccctt accggaatac gtgcggcttg tgactgagtt ttcaaagaaa acaggagact 240  
acccagcct ctctgccacg gacatccaag tgttgcactc acataccagt tgggaagcaga 300  
gtttgttggg gtgtctcacc taaaacaaga accacagaag gttaagggtga gctcatcgat 360  
tcagcaccca gaaacacctc tgcacatttc tggtttccat ctgccctaca agcctaaacc 420  
cccacaagaa acagaaaaag gacactcagc ttgtgagcct gagaacctgg aatttagttc 480  
cttcatgttc tggagaaacc ctttgcccaa catcgatcat gaactgcagg agctgctgat 540  
tgacagaggt gaggacgttc caagtgagga ggaggaggag gaagaaaacg ggtttgaaga 600  
cagaaaagat gacagcgatg acgacggggg tggctggata acccccagta acatcaagca 660  
gatccagcag gagctggagc agtggtgacgt ccccgaggac gtgcgggttg gctgcctgac 720  
cacagacttc gccatgcaga atgttctgct gcagatgggg ctgcacgtgc tggcgggtgaa 780  
cggcatgctg attcgtgagg cccggagcta catcttgccg tgccatggct gtttcaagac 840  
aacgtctgac atgagccgag tgttctgctc acactgtggg aacaagacct tgaagaaagt 900  
gtccgtgacc gtcagcgacg acggcacccct gcacatgcac ttctcccgca accccaaggt 960  
gctgaacccc cgcggcctcc ggtactcgct tccactccc aaagggggca aatacgccat 1020  
caacccccat ctaccgagg atcagcgctt ccctcagctg cgactctccc aaaaggccag 1080  
gcagaaaacc aacgtgttcg cccctgacta catcgccggg gtgtcaccct ttgtcgagaa 1140  
tgacatctcc agccgctcag ctaccctgca ggtccgggac agcaccttgg gagctgggag 1200

009220.69462960

gagacgctta aatcccaacg cttccagaaa gaagtttgtg aagaaaaggt gaagagcgag 1260  
 ttcccgagg caaattggat gggcgtctgg ccgccgtgga gttccgggtga cccatttccc 1320  
 cagccgtgtc gtctccagga ccaccgatg gaaataacag gcgggcttca cgggtcgggt 1380  
 ctgtccgccc atgccccgtt gggctctgcag ggaactggac tgtcccatgg cctgtgagca 1440  
 ccggagcgcc tggctgcctg ccaaggaagt gcaattgcat aaaaacagaa agaacaacgc 1500  
 cctggagcca atcttcaaga aaggaatttc caaaggataa tatttttcta ataatgcgg 1560  
 ctgcaacctc ctgtgcattt aattaaatag gccaaatttt tgctgcttag gtcattctcaa 1620  
 ggctgatact tgagctgtgt gccagagat catgcattta gatttatatt ttgcccagaa 1680  
 aatacaaggt tataataaaa ctaagaacta cc 1712

<210> 10789

<211> 255

<212> PRT

<213> Homo sapiens

<400> 10789

Met	Phe	Trp	Arg	Asn	Pro	Leu	Pro	Asn	Ile	Asp	His	Glu	Leu	Gln	Glu
1				5					10					15	
Leu	Leu	Ile	Asp	Arg	Gly	Glu	Asp	Val	Pro	Ser	Glu	Glu	Glu	Glu	Glu
			20					25					30		
Glu	Glu	Asn	Gly	Phe	Glu	Asp	Arg	Lys	Asp	Asp	Ser	Asp	Asp	Asp	Gly
		35					40					45			
Gly	Gly	Trp	Ile	Thr	Pro	Ser	Asn	Ile	Lys	Gln	Ile	Gln	Gln	Glu	Leu
	50					55					60				
Glu	Gln	Cys	Asp	Val	Pro	Glu	Asp	Val	Arg	Val	Gly	Cys	Leu	Thr	Thr
65					70				75					80	
Asp	Phe	Ala	Met	Gln	Asn	Val	Leu	Leu	Gln	Met	Gly	Leu	His	Val	Leu
				85					90					95	
Ala	Val	Asn	Gly	Met	Leu	Ile	Arg	Glu	Ala	Arg	Ser	Tyr	Ile	Leu	Arg
			100					105					110		
Cys	His	Gly	Cys	Phe	Lys	Thr	Thr	Ser	Asp	Met	Ser	Arg	Val	Phe	Cys
	115					120						125			
Ser	His	Cys	Gly	Asn	Lys	Thr	Leu	Lys	Lys	Val	Ser	Val	Thr	Val	Ser
	130					135						140			
Asp	Asp	Gly	Thr	Leu	His	Met	His	Phe	Ser	Arg	Asn	Pro	Lys	Val	Leu
145					150					155					160
Asn	Pro	Arg	Gly	Leu	Arg	Tyr	Ser	Leu	Pro	Thr	Pro	Lys	Gly	Gly	Lys
			165					170					175		
Tyr	Ala	Ile	Asn	Pro	His	Leu	Thr	Glu	Asp	Gln	Arg	Phe	Pro	Gln	Leu
			180					185					190		
Arg	Leu	Ser	Gln	Lys	Ala	Arg	Gln	Lys	Thr	Asn	Val	Phe	Ala	Pro	Asp
	195						200					205			
Tyr	Ile	Ala	Gly	Val	Ser	Pro	Phe	Val	Glu	Asn	Asp	Ile	Ser	Ser	Arg
	210					215					220				
Ser	Ala	Thr	Leu	Gln	Val	Arg	Asp	Ser	Thr	Leu	Gly	Ala	Gly	Arg	Arg
225					230					235					240
Arg	Leu	Asn	Pro	Asn	Ala	Ser	Arg	Lys	Lys	Phe	Val	Lys	Lys	Arg	

09629469-072300

245

250

255

<210> 10790  
<211> 1894  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (172).. (720)

<400> 10790

```

aatcgcgac cactacccaa tccatgggca ccaccgccag ctaccagag ttctgcaact 60
accagcacga ccacaagcac tggtagtggg tctggcaata gttccagcaa tgctactggg 120
aacaccgttg ctgccgctaa ttatgtcgcc agcatcttta gtacccaggg catgcagagc 180
ctgctgcaac agataactga aaaccccag ctgattcaga atatgctgtc ggcgccctac 240
atgagaagca tgatgcagtc gctgagccag aatccagatt tggctgcaca gatgatgctg 300
aatagcccg cgtttactgc aaatccacag ctgcaggagc agatgcgggc acagctccca 360
gccttcctgc agcagatgca gaatccagac acactatcag ccattgtcaa cccaagagca 420
atgcaggctt taatgcagat ccagcagggg ctacagacat tagccactga agcacctagt 480
gaaaccacga gtcatacatc agaatcagga cccaaccagc agttcattca gcaaatggtg 540
caggccctgg ctggagcaaa tgctccacag ctgccgaatc cagaagtcag atttcagcaa 600
caactggaac agctcaacgc aatgggggtt ttaaaccgtg aagcaaaact gcaggcccta 660
atagcaacag gaggcgacat caatgcagcc attgaaaggc tgcctgggct ccagccatcg 720
taatcacatt tctgtacctg gaaaaaaaaat gcatcttatt ttgtataatg gctcttaaat 780
ctttaaacac acacacaaaa tctgtcttta ctttcatttt gattctttta aatctgtcta 840
gttgtaagtc taatatgatg ctttttaaga tggagtccct cctctctact tccctcactc 900
cctttctcct ttgcttattt ttcctacctt cccttcctct tgtctcccca ctccctccct 960
ctttgtttcc ttccttcctt atttccttta gtttccttcc ttagccgttt tgagtgggtg 1020
gaatcaatgc tgtttcactc aaaagtgttg catgcaaaca ctctctttta ttctgcattt 1080
attgtgattt ttggaaacag gtatcaacct tcacagttgg gtgaacaagt gttgtcctac 1140
agatgtccaa tttatttgca tttttaaaca ttagcctatg atagtaattt aatgtagaat 1200
gaagatatta aaaacagaag caaattattt gaagctctct aatttgtggt acgatattgc 1260
ttattgtgac tttggcatgt atttttgcta gcaaaatgct gtaagattta taccattgat 1320
cttttttgct atatttgtat acagtacagt aagcaccaat ggcaactgtac atctaaaaat 1380
attacagtag aatctgagtg taatatgtgt aaccaaaatg agaaagaata caagaaatgt 1440
ttctggagct agttatgtct cacaattttg tagaatctta cagcatcttt gataaacttc 1500
tcagtgaata tggtggctag gcaagttcag ttaaaatata gtagaaatgt ttatcctggg 1560
atctctaagt atacatttaa ttgtacagaa aatttacagt gtaacattgt gtcaacattt 1620
gcagattgac tgtatatgac cttaatcttt gtgcagcctg aaggatcagt gtagtaatgc 1680
caggaaaagt ctttttacct aagacttcct tctcagcttc tcccataaag agacccta 1740
atgcattttg atttgtaatt ggaaatgtaa ctttacttga aagtgtcatg tgatgtttgc 1800
attactttta actgctatgt ataaaggaaa gtgtgtcttt tgacttcatc agttatttct 1860
cttgtgcaca gagaaaaatg cattaaaaat gact 1894

```

<210> 10791

09629469.072300



<211> 183  
<212> PRT  
<213> Homo sapiens

<400> 10791

Met Gln Ser Leu Leu Gln Gln Ile Thr Glu Asn Pro Gln Leu Ile Gln  
1 5 10 15  
Asn Met Leu Ser Ala Pro Tyr Met Arg Ser Met Met Gln Ser Leu Ser  
20 25 30  
Gln Asn Pro Asp Leu Ala Ala Gln Met Met Leu Asn Ser Pro Leu Phe  
35 40 45  
Thr Ala Asn Pro Gln Leu Gln Glu Gln Met Arg Pro Gln Leu Pro Ala  
50 55 60  
Phe Leu Gln Gln Met Gln Asn Pro Asp Thr Leu Ser Ala Met Ser Asn  
65 70 75 80  
Pro Arg Ala Met Gln Ala Leu Met Gln Ile Gln Gln Gly Leu Gln Thr  
85 90 95  
Leu Ala Thr Glu Ala Pro Ser Glu Thr Ser His Thr Ser Glu Ser  
100 105 110  
Gly Pro Asn Gln Gln Phe Ile Gln Gln Met Val Gln Ala Leu Ala Gly  
115 120 125  
Ala Asn Ala Pro Gln Leu Pro Asn Pro Glu Val Arg Phe Gln Gln Gln  
130 135 140  
Leu Glu Gln Leu Asn Ala Met Gly Phe Leu Asn Arg Glu Ala Asn Leu  
145 150 155 160  
Gln Ala Leu Ile Ala Thr Gly Gly Asp Ile Asn Ala Ala Ile Glu Arg  
165 170 175  
Leu Leu Gly Ser Gln Pro Ser  
180

<210> 10792  
<211> 1640  
<212> DNA  
<213> Homo sapiens

<400> 10792

atatgggctc tcgggactgg aaagaatctt aggggtcctc taatctaacc ctcacatgat 60  
gcttcaactc ctccagatca tctctaacat agccagagtg tcacgctatg tttaagcatc 120  
ttcagggatg ggaaaatccc ccacaccag ccttcatcat ccatatccca gaccacttcc 180  
atgtgacgtc ccactggccc ccaaagacgc tccaccagc agcctctcag ccagagccat 240  
ctgttcctgg ccttaccac tcctgggctt cctccagcct tgctgacccc atggctctgg 300  
cctcaactttt gtttcagtca aggagaaatt gactgctgac cctgacagtg aggtggccac 360  
tacaagtctc cgggtgtcac tcatgtgccc ggtgggtaaa aggggagaag ggaacagggt 420  
gggaaggagg ttgggttttag cctgtggact ttgatgaggg ttctaggga tactggcgtg 480  
aagttttctg ggatgaaatc agagtagggc ctctgacaag agaacttgct tctcctcagc 540  
tagggaagat gcgcctgact gtcccttgct gtgcctcac ctgcgcccac ctgcagagct 600  
tcgatgctgc cctttatcta cagatgaatg agaagaagcc tacatggaca tgtcctgtgt 660

09629469.072800

```

gtgacaagaa ggctccctat gaatctctta tcattgatgg gtagggccat tttgcttcct 720
cttacctggg acatccacta gaacctcttt tcttggttat ttctttttct ttttcttttc 780
tttttttttt ttttgagatg gaatcttact ctgttcccca ggctggagtg cagtggcaca 840
atcttggtct actgcaacct ccacctcccg ggttcaggcg atactcctgc ctcagcctcc 900
tgagtagctg ggattacagg caccaccac catgcctggc taatttttgt atttttagta 960
aagactgggt ttcaccatgt tggccaggct ggtcttgaac tcctgacctc aggtgatctg 1020
cccacttcag cctcctaaag tgctgggatt acaggcatga gacaacatgc ccagcctata 1080
atatttcttt tttcttttag ccaccacctc cttcagggtt ttttaattca tatggcttac 1140
ttcccctcac atgaactgca attctcacct tatctatccc ttttaccagt ctgtgtgtgt 1200
gtgtgtgtat gtgcatgtgt gtggaggggg agggcaacat taaggactta gtatatacaa 1260
ggcatcttgc tgagcacttt gcatgagtta tctcattgaa tcctcacaat aaccctatgg 1320
actcggctcc tacctgtaat tccaacactg gaaggctgag atgggaagat catttgaggc 1380
tgggagtttg agaccagcct gggcaacatg gtagaccctc tctctataaa aaattaaaaa 1440
aattagccag gcatgttata atagctcatg actgtagtct tagctgotca ggaggctgag 1500
gcgggaggat ggcttgaacc caggagtttg aggctgcagt gagctatgat tgcattactg 1560
caccacagcc tgggcaacag attgagacc tgtctcaaaa aaagaaataa tcctatgatt 1620
ggctagtgc actcaccag                                     1640

```

<210> 10793  
 <211> 1827  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (814).. (1254)

```

<400> 10793
ctggctcttc tgctagagcc aggcctgagg ctccctggga gccagtgca atcatcagcc 60
ccctgccctc ctccccatac ccactagctc tggggagtaa gccattatct caaaggtcag 120
gccgtgcacc agccagacct catgaactca ggaaggtgct tgtccaggag ttcttggtg 180
ctgtgccctt cacaggcaaa gactgcattc cttcctcagc tgccagtgag gtgctgccag 240
gcattccctg tagaactttc aggccagttt atgaactggt tggcaccctg gtctcctcc 300
tggcccaggc aggagaacca tgagcaggca gaaggagact ttgcaaagtg ccttccccag 360
catgtgtgcc ctctgccctt cagagcctgc agataggagg ggtggcgagg acactgttct 420
caatgagcag aacctccaag acacccaaag ctgcctgttt gccacctggc cctatgcctg 480
ccccgttttc tccctcaagg ccttcacccg tgctagggca gtcacctgga atgtcctttc 540
cattacccct gctgtaatgc ccagcacaga acttgatggc aggcctttgc atggtagcct 600
gaagcgatct cacccttcta actgggtttg gccacaggca cactggctca tgcttacctg 660
tgctgcctgt ggttatagtt atgcgaattg tggttttaca tccctaaaac agaagggcac 720
ggtgtccagg ggatagcacc cagcccaact tcagaaagac ttcaggcaag atgtctaacc 780
ctcgtcttgt tctgtttctt ccagggaatt ccaatgcca ctttcggagg cctcttcccc 840
tacccttaca cctacatggc agcagcagcc gcagccgcct cggctttgcc cgccactagt 900
gctgcagctg ccgccgccgc agccgccggc tccctctccc ggagcccctt cctgggcagt 960
gcccgcccc gactgcgttt cagcccttat cagatcccgg tcaccatccc gcctagcact 1020
agcctcctca ccaccgggct ggccctctgag ggctccaagg ccgctggtgg aaacagccgg 1080
gagcctagcc ccctgcccga gctggctctc cgcaaagtag gggccccatc ccgcggtgcc 1140

```

```

ctgtcgccca gtggctcggc caaggaggcg gccaatgaac tgcagagcat ccagagactg 1200
gtgagtgggc tggagagcca gcgagccctc tccccaggcc gggagtgcgc caagtgaggg 1260
gctgcccagc tgctcccctg ccacgcaggg caccgggct gcctgcccct gctgcttggg 1320
acgtgtacag cacagaatga gtattttatt aaataaagga gaaaagtggg ctgcagcagc 1380
cggaatagag cctcgtctgg caagtcgggg cctgggacac ttccctgggc ctcaacaagg 1440
atcaggctgc tggaaacaca gtcacttggg agctgctggg ctaggtccag atccgctcca 1500
gcgtcaaggt ggcattccgaa ggtgtctctg gtcttccagc gaggtgggag aggcctcatc 1560
cagggcccag cggtccttgc agaagccaga aggtgcaggg gccaggggtg ggagcatcgg 1620
agggagtccc agagccctgg accttgggcc tagaccgctg gataaaaactg ggttgaggga 1680
tgctggaacc agttacgact gaagtcagtg tagacctgag ctgggaggga acctgttagt 1740
ctccccacct cttccctgaa gagacaggca cccctcccag ccgtggtcaa cggagggagt 1800
ggcacttctg ccttgagtcc ccagggg 1827

```

<210> 10794  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 10794

Met	Pro	Thr	Phe	Gly	Gly	Leu	Phe	Pro	Tyr	Pro	Tyr	Thr	Tyr	Met	Ala
1				5				10						15	
Ala	Ala	Ala	Ala	Ala	Ala	Ser	Ala	Leu	Pro	Ala	Thr	Ser	Ala	Ala	Ala
			20					25					30		
Ala	Ala	Ala	Ala	Ala	Ala	Gly	Ser	Leu	Ser	Arg	Ser	Pro	Phe	Leu	Gly
		35				40						45			
Ser	Ala	Arg	Pro	Arg	Leu	Arg	Phe	Ser	Pro	Tyr	Gln	Ile	Pro	Val	Thr
	50					55					60				
Ile	Pro	Pro	Ser	Thr	Ser	Leu	Leu	Thr	Thr	Gly	Leu	Ala	Ser	Glu	Gly
	65				70					75				80	
Ser	Lys	Ala	Ala	Gly	Gly	Asn	Ser	Arg	Glu	Pro	Ser	Pro	Leu	Pro	Glu
				85					90					95	
Leu	Ala	Leu	Arg	Lys	Val	Gly	Ala	Pro	Ser	Arg	Gly	Ala	Leu	Ser	Pro
			100					105					110		
Ser	Gly	Ser	Ala	Lys	Glu	Ala	Ala	Asn	Glu	Leu	Gln	Ser	Ile	Gln	Arg
		115				120						125			
Leu	Val	Ser	Gly	Leu	Glu	Ser	Gln	Arg	Ala	Leu	Ser	Pro	Gly	Arg	Glu
	130					135						140			
Ser	Pro	Lys													
145															

<210> 10795  
 <211> 2026  
 <212> DNA  
 <213> Homo sapiens

<220>

09629469.072800

<221> CDS  
<222> (81).. (908)

<400> 10795

```
tcaaaagtggc ttctcgtgag ctaaagaatg gtttcgctgt ggtgtggccc ccaggacacc 60
atgcagatca ttcaacagcc atgggcttct gctttctcaa ctcagtggcc atcgccctgcc 120
ggcagctgca acagcagagc aaggccagca agatcctcat tgtagactgg gacgtgcacc 180
atggcaacgg caccagcaa accttctacc aagacccagc tgtgctctac atctccctgc 240
atcgccatga cgacggcaac ttcttcccgg ggagtggggc tgtggatgag gtaggggctg 300
gcagcgggtga gggcttcaat gtcaatgtgg cctgggctgg aggtctggac ccccccattg 360
gggatcctga gtacctggct gctttcagga tagtcgtgat gccatcgcc cgagagttct 420
ctccagacct agtcctgggt tctgctggat ttgatgctgc tgagggtcac ccggcccccac 480
tgggtggcta ccatgtttct gccaaatgtt ttgatacat gacgcatcaa ctgatgaacc 540
tggcaggagg cgcagtgggt ctggccttgg aggggtggcca tgacctcaca gccatctgtg 600
acgcctctga ggcctgtgtg gctgctcttc tgggtaacag ggtggatccc ctttcagaag 660
aaggctggaa acagaaaccc aacctcaatg ccattccgtc tctggaggcc gtgatccggg 720
tgcacagtaa atactggggc tgcattgcagc gcttggcctc ctgtccagac tcctgggtgc 780
ctagagtgcc aggggctgac aaagaagaag tggaggcagt gaccgcactg gcgtccctct 840
ctgtgggcat cctggctgaa gataggccct cggagcagct ggtggaggag gaagaacct 900
tgaatctcta aggtctctga accatctgcc cgcccaccat gcccttggga cctggttctc 960
ttctaacccc tggcaatagc cccatttctt gggctctttag agatcctgtg ggcaagtagt 1020
tggaaccaga gaacagcctg cctgctttga cagttatccc agggagcgtg agaaaatccc 1080
tgggtctaga atgggaactg gagaggacc ttagaggaga cgggctgggc ggcgaccccc 1140
acagggtctc cgagaacaga ttctccctc cagtattgggc cctggctgtg gccccattc 1200
ctcaggactg cacagaggag gactggctcc ggctccgtcg ggctcaccct taaccactat 1260
tcctggctct gcaaacccca gactttgcac acagccccag gctccacaca gaaatgtgaa 1320
cttggcctca gacaggctgg ccttctctag gctctagggg ctagcgggga gtggggagcc 1380
aagaggctcc atattcctga gtgcagggtt agtccctctc acctgcttcc tcagacgact 1440
ctggaagctt cctctacca ccgggcaact agacgaagct cctgacagc cgagactggc 1500
agccctccat ctggtccgta cctcgcagc agggcccccct acatcaacct cctggcgatg 1560
ccctgggtgga gcagatgggt gctctgggag tcctgtgctt cctgatccaa tgggtccaaa 1620
cccttcactc ccccagaag cgcagcatac ccttgggacc cctcggccac tgccactcg 1680
gggagccttc tctgtttctg gggcctcccc caccatagct ctgattccca cccacatag 1740
gaatagcctg actgaggggg aaggggtggg agagaagata cagacatgga ggaggggagg 1800
ctgctctggc aaagtcttca aggttttgg ggtccaggc ctgggggtcaa gaaggaaaat 1860
gtgtgtgagc atgtgtgtga gtgaggcgtg tgtgtgagcg tgtgtgtgag tgaggcgtgt 1920
gtgtgtgtct ttctaggac ccaccatacc ctgtgtatgt atgcatgttt ttgtaaaaag 1980
gaagaaaatg gaaaaaaatc tgaacaataa atgtttttatt tgcttt 2026
```

<210> 10796  
<211> 276  
<212> PRT  
<213> Homo sapiens

<400> 10796

Met Gly Phe Cys Phe Phe Asn Ser Val Ala Ile Ala Cys Arg Gln Leu  
1 5 10 15

-4270/13211-

```

Gln Gln Gln Ser Lys Ala Ser Lys Ile Leu Ile Val Asp Trp Asp Val
      20      25      30
His His Gly Asn Gly Thr Gln Gln Thr Phe Tyr Gln Asp Pro Ser Val
      35      40      45
Leu Tyr Ile Ser Leu His Arg His Asp Asp Gly Asn Phe Phe Pro Gly
      50      55      60
Ser Gly Ala Val Asp Glu Val Gly Ala Gly Ser Gly Glu Gly Phe Asn
      65      70      75      80
Val Asn Val Ala Trp Ala Gly Gly Leu Asp Pro Pro Met Gly Asp Pro
      85      90      95
Glu Tyr Leu Ala Ala Phe Arg Ile Val Val Met Pro Ile Ala Arg Glu
      100      105      110
Phe Ser Pro Asp Leu Val Leu Val Ser Ala Gly Phe Asp Ala Ala Glu
      115      120      125
Gly His Pro Ala Pro Leu Gly Gly Tyr His Val Ser Ala Lys Cys Phe
      130      135      140
Gly Tyr Met Thr His Gln Leu Met Asn Leu Ala Gly Gly Ala Val Val
      145      150      155      160
Leu Ala Leu Glu Gly Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser
      165      170      175
Glu Ala Cys Val Ala Ala Leu Leu Gly Asn Arg Val Asp Pro Leu Ser
      180      185      190
Glu Glu Gly Trp Lys Gln Lys Pro Asn Leu Asn Ala Ile Arg Ser Leu
      195      200      205
Glu Ala Val Ile Arg Val His Ser Lys Tyr Trp Gly Cys Met Gln Arg
      210      215      220
Leu Ala Ser Cys Pro Asp Ser Trp Val Pro Arg Val Pro Gly Ala Asp
      225      230      235      240
Lys Glu Glu Val Glu Ala Val Thr Ala Leu Ala Ser Leu Ser Val Gly
      245      250      255
Ile Leu Ala Glu Asp Arg Pro Ser Glu Gln Leu Val Glu Glu Glu Glu
      260      265      270
Pro Met Asn Leu
      275

```

<210> 10797  
 <211> 1569  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (64).. (1116)

<400> 10797  
 agcagttgct cgcggcgccgc tcggggaggg agccagcagc ctagggccta ggcccggggcc 60  
 accatggcgc tgcctccagg ccagccgcc ctccggcaca cactgtgtgt cctgccagcc 120

09629469.072300

```

cttctgagct caggttgggg ggagttggag ccacaaatag atggtcagac ctgggctgag 180
cgggcacttc gggagaatga acgccacgcc ttcacctgcc ggggtggcagg ggggcctggc 240
acccccagat tggcctggta tctggatgga cagctgcagg aggccagcac ctcaagactg 300
ctgagcgttg gaggggaggg cttctcttga ggcaccagca ccttcactgt cactgcccac 360
cggggcccagc atgagctcaa ctgctctctg caggacccca gaagtggccg atcagccaac 420
gcctctgtca tccttaatgt gcaattcaag ccagagattg cccaagtcgg cgccaagtac 480
caggaagctc agggcccagg cctcctgggt gtccctgtttg ccctgggtcg tgccaaccgc 540
ccggccaatg tcacctggat cgaccaggat gggccagtga ctgtcaacac ctctgacttc 600
ctgggtgctg atgcgcagaa ctacccctgg ctaccaaac acacggtgca gctgcagctc 660
cgcagcctgg cacacaacct ctcggtgggt gccaccaatg acgtgggtgt caccagtgcg 720
tcgcttccag ccccagggtc tctggctacc cgggtggaag tgccactgct gggcattgtt 780
gtggctgctg ggcttgcact gggcacccctc gtgggggttca gcaccttggg ggcctgcctg 840
gtctgcagaa aagagaagaa aaccaaaggc ccctcccgcc accatctct gatatacaagt 900
gactccaaca acctaaaact caacaacgtg cgcctgccac gggagaacat gtccctccca 960
tccaaccttc agctcaatga cctcactcca gattccagag cagtgaacc agcagaccgg 1020
cagatggctc agaacaacag ccggccagag cttctggacc cggagcccg ggcctcctc 1080
accagccaag gaagaagaaa tcaggacaaa gacgcataac agagggaaga ccatgggaag 1140
acacagaaga tggccaagaa gagaccctc agaagaaatc aatcttgggt gggcgtgggt 1200
gcttcacgcc tgtaatacca gcaactgtgg aggttgaggt gggcagatcg cctgagccta 1260
ggagttcgag gccagcctgg gcaacatggt gaaattccat ctctacaaaa aaattagccg 1320
ggtgtggtgt tgagtatctg tagtcccagc tacttgggag gctgggggtg gaggactgct 1380
tgagtccagc aggttgaggg tgcagtgagc tgagattgag ctactgcaact ccagcctggg 1440
catagagtaa taccctgtaa aaaaaaggaa ggaagggagg gagggaatca accatgccaa 1500
caaattgata ttggactact actggactac tagcctccag aactatgaaa taatacattt 1560
ctgatgtct
1569

```

<210> 10798  
 <211> 351  
 <212> PRT  
 <213> Homo sapiens

<400> 10798  
 Met Ala Leu Pro Pro Gly Pro Ala Ala Leu Arg His Thr Leu Leu Leu  
 1 5 10 15  
 Leu Pro Ala Leu Leu Ser Ser Gly Trp Gly Glu Leu Glu Pro Gln Ile  
 20 25 30  
 Asp Gly Gln Thr Trp Ala Glu Arg Ala Leu Arg Glu Asn Glu Arg His  
 35 40 45  
 Ala Phe Thr Cys Arg Val Ala Gly Gly Pro Gly Thr Pro Arg Leu Ala  
 50 55 60  
 Trp Tyr Leu Asp Gly Gln Leu Gln Glu Ala Ser Thr Ser Arg Leu Leu  
 65 70 75 80  
 Ser Val Gly Gly Glu Ala Phe Ser Gly Gly Thr Ser Thr Phe Thr Val  
 85 90 95  
 Thr Ala His Arg Ala Gln His Glu Leu Asn Cys Ser Leu Gln Asp Pro  
 100 105 110  
 Arg Ser Gly Arg Ser Ala Asn Ala Ser Val Ile Leu Asn Val Gln Phe

09629469.072300



```

agtgttggct gctgatggct catagttgag tctctttctg agacaaaggg aggtgtctca 720
ctcaagttta tccctcctcc ctgagaatag cttgaatcca aagactgac aatgagggat 780
acaaagggct ggcctcttgc cttgattcag gacgtaccta aaaggccatc cagctttaga 840
gttaccatg ggaacagttc aggaatctga ggaacttaac atctgactct tggaagaacg 900
gttctgtgga gaagagggtt gagtttattt tttttattct ggagatatag ggatgaaatg 960
gagagaagta aagaagagga aatatgaagg gaaaccaaac aactgtttga actggtgaaa 1020
gactaggcac cttgccctgt gactcctctc tagaaccctg cagactttta tcaagtattt 1080
ggctacaagc aagttttttg tgaaaccagt ggaagagtct gttcttctc tctcaactgg 1140
cctaggatgg gatggaactg tagagcacag gcatatttag gagtttagag acataattct 1200
gaggaataa gttctagaac tttgcagaag cagtaggtag ggctatgaac tctatacatt 1260
gtaaggtttg acaggcaaac atctggatgt atctgtcaca gcaactaatg tcttagagaa 1320
taaggatatg cttcaccaaa catttgagga actagtagta aaagtaatca atgctaataa 1380
atgacagtat aataaaatga aggcaaagtg ccacaggaac agaaaggctc tgaacagcta 1440
accgatatat taaagaacaa atagacttgc ccggcatggg gctatgtatc tgtagtccaa 1500
gctacttggg aggtgaagc aggaagatca ctttgaacct aggagttcaa atgcagcctg 1560
ggcaacatag agagatccta tctctaaaat 1590

```

<210> 10800  
 <211> 1767  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (7).. (1275)

```

<400> 10800
ggccggatgg ctgcgtgggg ctgtgtggct gcgctcggcg cggcgcggtg gctttgctgg 60
cgggcggcgc gcgcggctgc ggggctccag ggccgccccg cccgcagggtg ctatgctgtg 120
ggccccgctc agagcccacc cacccttggg ttctgttggg acatcgatgg agtgcttgtg 180
cggggccaca gagtgatccc tgctgctctg aaagccttcc gaaggctggg gaactcccag 240
gggcagctgc ggggtgccgt gttttttgtt acaaatgctg gtaacatctt acaacacagc 300
aaagcccagg agctgtcagc cctgctgggg tgcgagggtg atgcagacca agttatcctc 360
tctcacagcc ccatgaagct cttctccgag taccatgaga agcggatgct ggtgtctgga 420
cagggggccc tgatggaaaa tgcccaggga ctgggcttcc gaaatgtcgt caccgtggat 480
gagctgcgga tggcctttcc tctgcttgac atgggtggacc tggagcggcg gctaaagacc 540
acgccccctc cgaggaatga cttccccgcg attgaagggg tgctcctcct aggggagccg 600
gtccgctggg agaccagcct gcagctgac atggatgtcc tctcagcaa tgggagccct 660
ggggctggcc tggcaacacc cccctacccc caccctcccg tctagccag caacatggat 720
ctcctgtgga tggctgaagc caagatgcc aggtttggac atggcacctt tctgctgtgc 780
ctggaaaacca tttaccagaa agtgacgggc aaggagctga gatacagagg cctgatgggc 840
aaaccagca tcctacttta ccagtatgcc gaggacctga tcaggcgaca ggcggggagg 900
cggggctggg ccgcccccat ccggaagctc tatgtgtgg gcgataacct tatgtctgac 960
gtatacggcg ccaacctgtt ccaccagtac ctgcagaagg caacgcagta tggggcgcca 1020
gaactagggg ccgggggcac acggcagcaa cagccctcag caagccagag ctgcatctcc 1080
atcctggtgt gtacaggcgt ctacaatccc aggaaccac agtccacgga gcctgtcctt 1140
ggaggagggg agcctccatt ccacgggcac cgagacttat gcttcagtc agggctcatg 1200

```



```

gaggcctccc acgtggtgaa tgacgtgaat gaggctgtgc agctgggtcct cgcgaaggag 1260
ggctggggctt tggagtgagg gcagtgcggt ggaggtgagg gggtagcct ggacctgtgg 1320
gcgagtccca ttggctgggc tctggcctga tcaactgggt caggtcaggg cttggttccc 1380
ttgccaccct tcttgctgcc ccatgagtgt ggcattactg gtcacttgga agaagaagtg 1440
actctttttc cctgctgggt agcattttgt atggaacggt tggaaatttc tgggcccagt 1500
tcccacgtgc ctttcgtggc agtctaacct caggccattc ttttcccctg tgtgcctcag 1560
tgtccttctc atttcagtag ggacttctga aatgggggag gcagtgtgga atactgtgga 1620
tgtctgtgca gaccctttgc cgacactgaa ggcattgcag ctgtcggcag agtgtcttaa 1680
caccagatgc tactttttac tgtattgtag tttattgccc ggagatgtgg ggcttttttt 1740
ttaaataaaa taatcataat aaatgtt 1767

```

<210> 10801  
 <211> 423  
 <212> PRT  
 <213> Homo sapiens

<400> 10801

Met	Ala	Ala	Trp	Gly	Cys	Val	Ala	Ala	Leu	Gly	Ala	Ala	Arg	Gly	Leu	1	5	10	15
Cys	Trp	Arg	Ala	Ala	Arg	Ala	Ala	Ala	Gly	Leu	Gln	Gly	Arg	Pro	Ala	20	25	30	
Arg	Arg	Cys	Tyr	Ala	Val	Gly	Pro	Ala	Gln	Ser	Pro	Pro	Thr	Phe	Gly	35	40	45	
Phe	Leu	Leu	Asp	Ile	Asp	Gly	Val	Leu	Val	Arg	Gly	His	Arg	Val	Ile	50	55	60	
Pro	Ala	Ala	Leu	Lys	Ala	Phe	Arg	Arg	Leu	Val	Asn	Ser	Gln	Gly	Gln	65	70	75	80
Leu	Arg	Val	Pro	Val	Phe	Phe	Val	Thr	Asn	Ala	Gly	Asn	Ile	Leu	Gln	85	90	95	
His	Ser	Lys	Ala	Gln	Glu	Leu	Ser	Ala	Leu	Leu	Gly	Cys	Glu	Val	Asp	100	105	110	
Ala	Asp	Gln	Val	Ile	Leu	Ser	His	Ser	Pro	Met	Lys	Leu	Phe	Ser	Glu	115	120	125	
Tyr	His	Glu	Lys	Arg	Met	Leu	Val	Ser	Gly	Gln	Gly	Pro	Val	Met	Glu	130	135	140	
Asn	Ala	Gln	Gly	Leu	Gly	Phe	Arg	Asn	Val	Val	Thr	Val	Asp	Glu	Leu	145	150	155	160
Arg	Met	Ala	Phe	Pro	Leu	Leu	Asp	Met	Val	Asp	Leu	Glu	Arg	Arg	Leu	165	170	175	
Lys	Thr	Thr	Pro	Leu	Pro	Arg	Asn	Asp	Phe	Pro	Arg	Ile	Glu	Gly	Val	180	185	190	
Leu	Leu	Leu	Gly	Glu	Pro	Val	Arg	Trp	Glu	Thr	Ser	Leu	Gln	Leu	Ile	195	200	205	
Met	Asp	Val	Leu	Leu	Ser	Asn	Gly	Ser	Pro	Gly	Ala	Gly	Leu	Ala	Thr	210	215	220	
Pro	Pro	Tyr	Pro	His	Leu	Pro	Val	Leu	Ala	Ser	Asn	Met	Asp	Leu	Leu	225	230	235	240

09629469.072800

-4275/13211-

Trp Met Ala Glu Ala Lys Met Pro Arg Phe Gly His Gly Thr Phe Leu  
245 250 255  
Leu Cys Leu Glu Thr Ile Tyr Gln Lys Val Thr Gly Lys Glu Leu Arg  
260 265 270  
Tyr Glu Gly Leu Met Gly Lys Pro Ser Ile Leu Thr Tyr Gln Tyr Ala  
275 280 285  
Glu Asp Leu Ile Arg Arg Gln Ala Gly Arg Arg Gly Trp Ala Ala Pro  
290 295 300  
Ile Arg Lys Leu Tyr Ala Val Gly Asp Asn Pro Met Ser Asp Val Tyr  
305 310 315 320  
Gly Ala Asn Leu Phe His Gln Tyr Leu Gln Lys Ala Thr His Asp Gly  
325 330 335  
Ala Pro Glu Leu Gly Ala Gly Gly Thr Arg Gln Gln Gln Pro Ser Ala  
340 345 350  
Ser Gln Ser Cys Ile Ser Ile Leu Val Cys Thr Gly Val Tyr Asn Pro  
355 360 365  
Arg Asn Pro Gln Ser Thr Glu Pro Val Leu Gly Gly Gly Glu Pro Pro  
370 375 380  
Phe His Gly His Arg Asp Leu Cys Phe Ser Pro Gly Leu Met Glu Ala  
385 390 395 400  
Ser His Val Val Asn Asp Val Asn Glu Ala Val Gln Leu Val Phe Arg  
405 410 415  
Lys Glu Gly Trp Ala Leu Glu  
420

<210> 10802  
<211> 2398  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (42).. (602)

<400> 10802  
gcatacaagct cgagaaggag ttcgacctgc ccccggccgc gatgcccac acggagaacg 60  
tgtactcgca gtggctcgcc ggctacgcgg cctccaggca gctcaaagat ccttcctta 120  
gcttcggaga ctccagacaa tcgctttttg cctcctcgtc ggagcactcc tcggagaacg 180  
ggagcttgcg cttctccaca ccgcccgggg agctggacgg agggatctcg gggcgcagcg 240  
gcacgggaag tggagggagc acgcccata ttagtggtcc gggcccgggc aggcccagct 300  
caaaagaggg cagacgcagc gacacttggt agtactgttg gaaagtcttc aagaactgta 360  
gcaatctcac tgtccacagg agaagccaca cgggcgaaag gcottataaa tgcgagctgt 420  
gcaactatgc ctgtgcccag agtagcaagc tcaccaggca catgaaaacg catggccagg 480  
tggggaagga cgtttacaaa tgtgaaattt gtaagatgcc ttttagcgtg tacagtaccc 540  
tgagaaaaca catgaaaaaa tggcacagtg atcgagtgtt gaataatgat ataaaaactg 600  
aatagaggta tattaatacc cctccctcac tccacctga caccoccttt ttcaccactc 660  
cccttcccca tcgccctcca gccccactcc ctgtaggatt tttttctagt cccatgtgat 720

00022.0' 69462960

```

ttaaacaac aaacaacaa acagaagtaa cgaagctaag aatatgagag tgcttgtcac 780
cagcacacct gttttttttc tttttctttt tcttttttct ttttcctttt ttttttttct 840
tttcctttat gttctcaccg tttgaatgca tgatctgtac ggggcaatac tattgcattt 900
tacgcaaac ttgagccttt ctcttgtgoa ataatttaca tgttgtgtat gttttttttt 960
aaacttagac agcatgtatg gtatgttatg gctattttta attgtcccta attcgttgct 1020
gagcaaacat gttgctgttt ccagttccgt tctgagagaa aaagagagag agagagaaaa 1080
agaccatgct gcatacatc tgtaatacat atcatgtaca gttttatttt ataacgtgag 1140
gaggaaaaac agtctttgga ttaaccctct atagacagaa tagatagcac tgaaaaaaa 1200
tctctatgag ctaaattgtct gtctctaaag ggtaaattgt atcaattgga aaggaagaaa 1260
aaaggccttg aattgacaaa ttaacagaaa aacagaacaa gttttattcta tcatttggtt 1320
ttaaaatatg agtgccttgg atctattaaa accacatoga tggttctttc tacttgttat 1380
aaactttag ctttaattcag cattgggtga ggtaataaac cttaggaact agcatataat 1440
tctatattgt atttctcaca acaatggcta cctaaaaaga tgaccatta tgtcctagtt 1500
aatcatcatt tttcctttag ttttaatttta taaacaaaac tgattatacc agtataaaag 1560
ctactttgct cctgggtgaga gcttaaaaga aatgggctgt tttgcccata gttttatttt 1620
tttttaacaa atgattaaat tgaatgtgta atgtgcaaaa gccctggaac gcaattaaat 1680
acactagtaa ggagttcatt ttatgaagat atttgcttta ataatgcctt tttaaaaata 1740
ctggcaccaa aagaaataga tccagatcta ctgggttgto aagtggacaa tcaaatgata 1800
aactttaaga ccttgatata catattgaaa ggaagaggct gacaataagg tttgacagag 1860
gggaacagaa gaaaataata tgatttatta gcacaacgtg gtactatttg ccatttaaaa 1920
ctagaacagg tatataagct aatattgata caatgatgat taactatgaa ttcttaagac 1980
ttgcatttaa atgtgacatt cttaaaaaaa gaagagaaaag aattttaaga gtagcagtat 2040
atatgtctgt gctccctaaa agttgtactt catttctttt ccatacactg tgtgctattt 2100
gtgtaacat ggaagaggat tcattgtttt tatttttatt tttttaattt tttctttttt 2160
attaagctag catctgcccc agttggtgtt caaatagcac ttgactctgc ctgtgatata 2220
tgtatctttt ctctaatacag agatacagag gttgagtata aaataaacct gctcagatag 2280
gacaattaag tgcactgtac aattttccca gtttacaggt ctataactta gggaaaagtt 2340
gcaagaatgc tgaaaaaaa ttgaacacaa tctcattgag gagcattttt taaaaact 2398

```

<210> 10803  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 10803

Met	Pro	Asn	Thr	Glu	Asn	Val	Tyr	Ser	Gln	Trp	Leu	Ala	Gly	Tyr	Ala
1				5					10					15	
Ala	Ser	Arg	Gln	Leu	Lys	Asp	Pro	Phe	Leu	Ser	Phe	Gly	Asp	Ser	Arg
			20					25					30		
Gln	Ser	Pro	Phe	Ala	Ser	Ser	Ser	Glu	His	Ser	Ser	Glu	Asn	Gly	Ser
			35				40					45			
Leu	Arg	Phe	Ser	Thr	Pro	Pro	Gly	Glu	Leu	Asp	Gly	Gly	Ile	Ser	Gly
			50			55				60					
Arg	Ser	Gly	Thr	Gly	Ser	Gly	Gly	Ser	Thr	Pro	His	Ile	Ser	Gly	Pro
	65				70				75					80	
Gly	Pro	Gly	Arg	Pro	Ser	Ser	Lys	Glu	Gly	Arg	Arg	Ser	Asp	Thr	Cys
			85						90					95	

09629459.072800

Glu	Tyr	Cys	Gly	Lys	Val	Phe	Lys	Asn	Cys	Ser	Asn	Leu	Thr	Val	His
			100					105					110		
Arg	Arg	Ser	His	Thr	Gly	Glu	Arg	Pro	Tyr	Lys	Cys	Glu	Leu	Cys	Asn
		115					120					125			
Tyr	Ala	Cys	Ala	Gln	Ser	Ser	Lys	Leu	Thr	Arg	His	Met	Lys	Thr	His
	130					135					140				
Gly	Gln	Val	Gly	Lys	Asp	Val	Tyr	Lys	Cys	Glu	Ile	Cys	Lys	Met	Pro
145				150					155						160
Phe	Ser	Val	Tyr	Ser	Thr	Leu	Glu	Lys	His	Met	Lys	Lys	Trp	His	Ser
			165					170						175	
Asp	Arg	Val	Leu	Asn	Asn	Asp	Ile	Lys	Thr	Glu					
			180					185							

<210> 10804  
 <211> 1806  
 <212> DNA  
 <213> Homo sapiens

<400> 10804

gaatagaatg	aaatctcagt	aatgaattaa	agcaacaaaa	agatattgat	tggcaaaaag	60
caagatataa	gagatgcatt	tgcttaacat	ctctacataa	tatttatggg	ctggtcagta	120
ttggctctgg	cagtattgcc	tggctgacgt	gaaatgtaaa	ctagtaggca	tggtattgat	180
ctgctaaaac	taaccctctt	tttaagagga	gatttaagga	agacgtcaat	caaaatgtca	240
aatatgtgtg	tcagaatata	aataattttt	cacattgtat	tggtgctata	taaaaaaat	300
aatagaattg	gttgggtttc	tgaggtgaaa	tccagagtaa	gagtactaga	cagttcaaca	360
agccacatct	aatggcacag	atagaggatg	tagctatttt	atacctttca	taacatttga	420
gagtaagata	tccttcagga	tgtgaagtga	ttattaagta	ctcataacct	aaatctgttg	480
tcaagattag	aactgggggt	catgttaaaa	accttccata	ttacctgagg	gtacctgtgg	540
ggaacagttc	cttcccctgt	gtggtagtat	tttgttggaa	gagaatgttt	atacgaaaaa	600
tgaaattctt	ccaacagcag	agaaactcta	aaaagtttga	tagtacctat	caaagtgtct	660
tacttctgtg	atagagaaca	tctgatgtac	caatttagat	ctatttcttt	atactttttc	720
taaccaattg	cttaatagta	ctttggatga	ttatcacctt	tgccacttaa	aatatataaa	780
tatccttttt	acttcatgag	gaaggaggaa	ttttttgatt	actgagttca	gccttttgtg	840
atgacttata	ttttggactt	acattttaac	tttaaagaat	gtcagatccc	ttctttgtct	900
tactagttaa	atcctcacct	aatctcttgg	gtatgaatat	aaatgtgtgt	catcgttata	960
ttgttcagct	agatgagcaa	gtatcttagg	gtagtaggta	gcctgggtgg	tttagaagtg	1020
tttggtgatt	tttacggaga	gagttttcct	aagtgggtgg	ttataggtgg	tatcagatat	1080
tattagggca	gctttttggg	gagtaatctc	aggctctcca	gagcagcagc	atttttctca	1140
ttgatataag	taagattctt	aggagctttt	cttatcacac	aagatgcctg	aatcgaatgt	1200
gagaattgaa	ggcatttctt	ctgcataaac	aaagaattct	acctgctgga	cagaaacctg	1260
gaaagtctct	tggaattcgc	tgaattacag	tttagtatgt	cctgattaca	gagtgacaat	1320
atttatcaag	cctttgttat	attggattat	cttctctctt	aaaatacaac	tgtattataa	1380
ttgaaatgac	agcccaaaat	tggatggttt	acaaaaacca	atgaaaggga	tttcacacat	1440
caatttttat	ttctgttttg	aagagcacat	gctatataat	aattgctagt	agcaactgca	1500
gtaaacagg	tgataagtta	ttttctctga	aaagatccag	tcctagagca	ggattcttcg	1560
atcattcatg	gcagagtga	aaaggtttgt	atggttcttg	tccaaataac	tcagttctta	1620
aaatgcttaa	aatgatcgta	aaccattatc	ctttaaaggt	ttatttgaag	atgctgttaa	1680

000220" 69462960

agtacagaat tttgtgtaca ggtagatfff tccgtccctc attaatagtg cctttcttaat 1740  
taatacagac tgggtgtagc tataacaaaa ctccagtaag gccaaagaat cccaagttct 1800  
ttgtgg 1806

<210> 10805  
<211> 1798  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (5).. (304)

<400> 10805  
aaggatgcgg tcccgggttc tgtggggcgc tgcccgggtg ctctggcccc gccggggcgt 60  
tggcccagcc cgccggcccc tgagctccgg tagcccgccg ctggaggagc tgttcacccg 120  
gggocgggccc ttgcggacct tcctcgagcg ccaggcgggg tctgaagccc atttgaaggt 180  
caggaggccc gagttgctgg cggatgatcaa actgctgaac gagaaggagc gggagctgcg 240  
ggagactgag cacttgctgc acggttaagg tccggcccg gggagaggcg tcagagcaca 300  
ttcttgactc ttctgttgac ttttccactg cccacactac ccgagtttga aactctttac 360  
tcacttgtag ccgtttttat tttggatcag aggtcaggac atcattacgt gctgtgatcc 420  
catcctctcc tgtgggctct cttgtgctcc tttgccacgg cgctctgccc ccttttacat 480  
gcttattagt tgtggactcg ggcaagagct cattagctca gcaaggataa ataaggcact 540  
gtccctgtga tgggctccac agcgggtgtt ctcaaagtgt ggtgtggaga ccattttgca 600  
gtagtatcag ggcagtgcct gttaatagca gacttaggac tcagaatctc agacctatac 660  
gtgggtaaaag gtactaaatt gggaaattca gtatggccta agtatagaat aggtgggaga 720  
tgatgtcata gaaacatgaa gccagaaaaa tagttaagaa ccttgcaaga caaagaattt 780  
ggattttatt tttatagacc atggaaagtt agcaaagtgt ttttaagcaga gaattcacgt 840  
ctttgtaaaag aaaagttaat ggtggcatgc gctgaggata aattggagta ttctccagaa 900  
acgctgggtg ctgacaggcc agggaggagg cagttgaaac aatccaaaga agaaatgggtg 960  
ataggcatag ttctgactca caaaacattt tgagaaacaa gttaggattt agtggcttat 1020  
gccctgagaa ggatgaggga gagagttagt tctaagaaaa gtcttaggtt tctggcttca 1080  
gcacgagtgg tactgttaat taagatgaaa gtataaaaagt tggaccgaat tttttaaaaa 1140  
gatgagtttt gcattgaatg ccatattaag ttaaaaatac ctgtgaaaag gaattccaat 1200  
aaagatatct gtactagtct aggagaaaaa attactgaca taggagaaaa attgagccca 1260  
aataatcata tgagagctct cgagatatac agtacgtggt aaattaaacc ttagaagtag 1320  
atgagaacac tcagggaaaa tgtgttaaga tagaaacaag tctaacaagg ccagaaatac 1380  
acagtatttg aggagcaggc agagaagaag gctataaaaag gtcaagaaaa aaacagccag 1440  
agctttgtga ccctgaagta gataaataaa tgaagctgta gaagccaata gaaaatttca 1500  
agaagtaaga gatccttggc caggcgtggt ggctcacgcc tctaattcca gcactttgag 1560  
aggctcaggt gggccgatca cttgagccca ggagttcgag accagcctgg gtaacatggc 1620  
aaaaccctgt ctctacaaac aatgcaaaat tagctgggca tgggtggtgcg tgcctgtggt 1680  
cccagctact tgagaggctg aggtgggaga atcgcttgaa cccgggagggt ggaggttgca 1740  
gtgagccaag atggtgccac tgcattccag cctgggtgac agcgcaagac cctgcctc 1798

<210> 10806

<211> 100  
<212> PRT  
<213> Homo sapiens

<400> 10806

Met	Arg	Ser	Arg	Val	Leu	Trp	Gly	Ala	Ala	Arg	Trp	Leu	Trp	Pro	Arg
1				5				10						15	
Arg	Ala	Val	Gly	Pro	Ala	Arg	Arg	Pro	Leu	Ser	Ser	Gly	Ser	Pro	Pro
			20					25					30		
Leu	Glu	Glu	Leu	Phe	Thr	Arg	Gly	Gly	Pro	Leu	Arg	Thr	Phe	Leu	Glu
		35					40					45			
Arg	Gln	Ala	Gly	Ser	Glu	Ala	His	Leu	Lys	Val	Arg	Arg	Pro	Glu	Leu
	50					55					60				
Leu	Ala	Val	Ile	Lys	Leu	Leu	Asn	Glu	Lys	Glu	Arg	Glu	Leu	Arg	Glu
65					70					75				80	
Thr	Glu	His	Leu	Leu	His	Gly	Lys	Gly	Arg	Ala	Arg	Gly	Arg	Gly	Val
			85						90					95	
Arg	Ala	His	Ser												
			100												

<210> 10807  
<211> 1759  
<212> DNA  
<213> Homo sapiens

<400> 10807

ttaccttgtc	accagggtg	gagtgcagcc	tcaaactcct	ottgottcag	cctctgagta	60
gotggaatta	caggcttgta	ccaccatgcc	cagctaattg	tcagattttt	tttttttgta	120
gaggggggtct	tgctgtgttt	ttcccggctg	gtctcaaact	cccggcotta	agcagttgtc	180
ccgcttcagc	ctcccaaagt	gctaggatta	cagggtgtgag	ccatcatgcc	ctgcctaata	240
tactggcttt	aaggaagctt	tcagggtgcc	acactctgtc	agacttgact	taattcttct	300
aggctttacc	aacaccccca	accccatggt	tgggggtggg	gcattacaac	caggctgttg	360
tcacctctga	ggcacagggt	tcagccacaa	tgccaccttt	tccggtgagt	cagcgagttt	420
gtctggaata	cccctccgta	ggtgagagct	ggggtccttg	gctgggacca	cgatgggccc	480
tagcttctca	ggaagccgaa	gctggccctg	gccagagctg	tottgcagac	ttgagataca	540
gatggcttct	ttccccctcc	cgttttcttt	ttgaaaatgt	ttttaactcg	gagcatgtgt	600
cggcacggcg	ttctttccac	gaggacagaa	gctgtcactg	cacgcagcag	agacactggt	660
totgatccaa	agccgattgt	ggcctgcttc	tgggtctaat	tatttggcag	gtcagggtgct	720
ggggtaactgt	ccagggtgta	atcaagactc	aagcatttgg	gcatgggggt	gaggaggaac	780
catggggagg	ggaaggaaaa	aggagggggt	gtgtgactta	gcctgtccag	accacagagc	840
gagtcaatcc	ccctggaaca	gtggcgtccg	ctgctctgcg	gggaggggtct	gcccattgacc	900
tggtgtggga	gccgaggccg	ccaccaactt	gggcgcccag	cccagaccct	aggagaggga	960
ggagcctgga	gcagcctttc	cctggcgaga	ttggccacat	tccattttcc	totctgacca	1020
gagagccctc	tcacccttgg	gtgtacaggc	tctttccgct	aacagaggcc	ctcctccagc	1080
cccattgtcc	ccactgtgag	accaggagtg	cccctttccc	agccccaaaa	aatgagtgcg	1140
ctcccattgt	gaggcacaga	gtgaaagcct	cgtgttttag	aacggcgggt	gggaaggact	1200
tgatgcgccg	tgttcttgca	gaaagggcag	ggacgatacc	gccttgtgct	ttgcctggca	1260

catggtagg	gcctaggtat	ttgggcgaat	ggagtgatgt	ccagagaaag	caggactttg	1320
gctcgggcaa	ggagtgggtg	gcagtaggga	ggactgttgt	ctgtggaagg	gtcactgttg	1380
ctcttggctt	tctcctactg	tccctgccga	tggtgacagc	cagccagcct	cctggccgca	1440
ccattgtacc	gcctctttct	tggtttggtc	ctgggcgttg	atgtcagatt	tgctttgttc	1500
atgtaaaatg	tggtgggatc	atgtctccct	caaatacaat	tccaaccaa	atcaaaacaa	1560
aacaaatcaa	gcgtctcagt	gaagacagcc	ctgagggttc	tgttgtctca	gcctgggagc	1620
ctgggagcct	ggtcgacctc	acctgctttt	cagattttgc	catgtttatt	gcagacgtcc	1680
ccgtcctggg	gctggccact	catcttcatt	acagggtta	tctcacaacc	tccagggtgtg	1740
gtatgcagtg	gttttaagg					1759

<210> 10808  
 <211> 2124  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (153)..(1547)

<400> 10808						
gcagagcggc	ggcttctctc	gcgaggacgg	acgccattat	cgcattctcc	cgacaaacac	60
cacgagaatt	ccgcagccca	cacgggtgacc	aaaagccagc	cccactgtga	gttgaactct	120
ttcgtgttga	ccggccactc	tccgtgctct	ggatgatgtc	ggaacacgac	ctggccgatg	180
tggttcagat	tgcaagtggaa	gacctgagcc	ctgaccaccc	agttgttttg	gagaatcatg	240
tagtgacaga	tgaagacgaa	cctgctttga	aacgccagcg	actagaaatc	aattgccagg	300
atccatctat	aaagtcattc	ctgtattcca	tcaaccagac	aatctgcttg	cggttggata	360
gcattgaagc	caaattgcaa	gccctggagg	ctacttgtaa	atccttagaa	gaaaggctgg	420
atctgggtcac	gaacaagcag	cacagcccca	tccaggttcc	catgggtggc	ggctcccctc	480
tcggggcaac	ccagacgtgc	aacgctgtgc	ctgggcgtcg	gcagaacacc	attgtgggtg	540
aggtgccggg	ccaagaagac	agccaccacg	aggacgggga	gagcggctcg	gaggccagcg	600
actctgtgtc	cagctgtggg	caggcgggca	gtcagagcat	cgggagcaac	gtcacgctca	660
tcaccctgaa	ctcggaagag	gactacccca	atggcacctg	gctgggcgac	gagaacaacc	720
ccgagatgcg	ggtacgctgc	gccatcatcc	cctccgacat	gctgcacatc	agcaccaact	780
gccgcacggc	cgagaagatg	gcgctcacgc	tgctggacta	cctcttcac	cgcgagggtg	840
aggctgtgtc	caacctctcg	gggcagggca	agcacgggaa	gaagcagctg	gaccgcgtca	900
ccatctacgg	catccggtgt	caccttttct	ataaatttgg	catcacagaa	tccgacttgt	960
accgaatcaa	gcagagcatt	gactccaagt	gccgcacggc	gtggcggcgc	aagcagcggg	1020
gccagagcct	ggcgggtcaag	agcttctcgc	ggagaacgcc	caactcgtcc	tcctactgcc	1080
cttcagagcc	gatgatgagc	acccacctc	ctgccagcga	gctcccgcag	ccacagccgc	1140
agccgcaggc	cctgcactac	gcgctggcca	acgcacagca	ggtgcagatc	caccagatcg	1200
gagaagacgg	acaggtgcaa	gtaatcccac	agggacacct	ccacatcgcc	cagggtgccgc	1260
agggggagca	agtccagatc	acgcaggaca	gcgagggcaa	cctccagatc	catcacgttg	1320
ggcaggacgg	tcaggtgctg	cagggtgcac	agctgatcgc	cgtggcctcc	tcggaccccg	1380
cggcggcggg	cgtggatggg	tcgccactcc	agggcagcga	catccagggt	cagtacgtgc	1440
agctggcgcc	agtgagtgc	cacacggccg	gggcacagac	ggccgaagcc	ctgcagccca	1500
cgtacagcc	ggagatgcag	ctcgagcacg	gggccatcca	gattcagtga	gcggtgccca	1560
tggcaccagg	agcccctcgc	cggctccgcc	tacggcccg	ccccacgcg	ccctgctctc	1620

```

acggcctcgg cacaggcagc ggctgcacgt gttctgctga agtgcgtctg aaggccgctg 1680
cctccgcggg gaacagcatc ctatcaactg aaagagcagc cgcgcgcgcc ccagccgga 1740
gacccctttc gtttgagtc tgctgttggt gtcggagcac gaggggaggc acggtgcgga 1800
gagcgtcgca tatgcgcggg aaatcaagaa ctatgatatt tttctgttta aacagctttt 1860
tttaatttgc tatggtgttt ataacaaaaa agaaaatttg aaaaaaaaaa tcccagggga 1920
gtagcaggag ccctttgctg tgtgctctgt ccagtgtcat gagacgggag ccctttgctg 1980
tgtgctctgt ccagtgtcat gaggcagggtg ttgcaaagc cagctctcgg ttccgatggg 2040
gtattgctga cctacttttc taggggaaat gctottaaac actgtaatta tgcatttcta 2100
atgaaataaa atgtatttat gacc                                     2124

```

<210> 10809

<211> 465

<212> PRT

<213> Homo sapiens

<400> 10809

```

Met Met Ser Glu His Asp Leu Ala Asp Val Val Gln Ile Ala Val Glu
 1          5          10          15
Asp Leu Ser Pro Asp His Pro Val Val Leu Glu Asn His Val Val Thr
 20          25          30
Asp Glu Asp Glu Pro Ala Leu Lys Arg Gln Arg Leu Glu Ile Asn Cys
 35          40          45
Gln Asp Pro Ser Ile Lys Ser Phe Leu Tyr Ser Ile Asn Gln Thr Ile
 50          55          60
Cys Leu Arg Leu Asp Ser Ile Glu Ala Lys Leu Gln Ala Leu Glu Ala
 65          70          75          80
Thr Cys Lys Ser Leu Glu Glu Arg Leu Asp Leu Val Thr Asn Lys Gln
 85          90          95
His Ser Pro Ile Gln Val Pro Met Val Ala Gly Ser Pro Leu Gly Ala
100          105          110
Thr Gln Thr Cys Asn Ala Val Pro Gly Arg Arg Gln Asn Thr Ile Val
115          120          125
Val Lys Val Pro Gly Gln Glu Asp Ser His His Glu Asp Gly Glu Ser
130          135          140
Gly Ser Glu Ala Ser Asp Ser Val Ser Ser Cys Gly Gln Ala Gly Ser
145          150          155          160
Gln Ser Ile Gly Ser Asn Val Thr Leu Ile Thr Leu Asn Ser Glu Glu
165          170          175
Asp Tyr Pro Asn Gly Thr Trp Leu Gly Asp Glu Asn Asn Pro Glu Met
180          185          190
Arg Val Arg Cys Ala Ile Ile Pro Ser Asp Met Leu His Ile Ser Thr
195          200          205
Asn Cys Arg Thr Ala Glu Lys Met Ala Leu Thr Leu Leu Asp Tyr Leu
210          215          220
Phe His Arg Glu Val Gln Ala Val Ser Asn Leu Ser Gly Gln Gly Lys
225          230          235          240
His Gly Lys Lys Gln Leu Asp Pro Leu Thr Ile Tyr Gly Ile Arg Cys

```

009270.69462960





```

ggagaagtgc tacctggacc ccagcttgaa ctctctcgta tatcaaaata ttcttaaagt 480
tggcattcaa atgagaattt ccagggtctc atgtctttac aatgagaaaa ggataggcca 540
ggggatcctg tgcatagata acgtccactg tggggagact tcagacagta tttctttaga 600
aactcccttc agaaatagag cgcaccagga gaaaccagag aggcctttaa gaggcgggaa 660
gagtcattac ctggcgctgt ggaataacga agatccctat ggagatatct ggttaacaga 720
caagcaacct gaggaacaca acttttagcg taccaaaata atttcccttt ctcatcttga 780
aatgacctgg actaacagaa gaaattttcc tgcattgctt gtgaggatct tacataaatc 840
aaaactgcga tactatggaa aacctgataa aaagatgatt gaaccatata agaccttttt 900
ggaagttgct gacagttcag gcacagtgtc agtgattatg tggaatgccc tgtgtcctga 960
gtggtataaaa agtttgcggg ttggtttagt tcttctgctt caagaactatt ctgttaaaaa 1020
gagttatcca ttcagaatac agcctgtccc cgtggatcca cagatcaaac taatttctac 1080
aatggaaatc tgcctgaatc ttcgagatcc cccaacaaat ataattatca ttccagaaaa 1140
gcagggtgaaa ccagaatgga gactgccaaa gctaaatcac cgatttacca caaggtcaga 1200
actggatgat atgccagaaa attgcatctg tgatgttatt ggcccttttag tttttgtagg 1260
aagggtccag cggtcaaaaa agaaagaaaa ccgtgaagat ttttggtcac atcgctggat 1320
tcacattgct gacggtactt cagaacaacc atttatagtg gaactgtttt caacatcgca 1380
gccagaaatc tttgaaaata tttacccaat ggcatatttt gtgtgtacac agttgaaagt 1440
tgtcagaaat gacaatcaag tacctaagct gctttaccto accactacaa atgagagtgg 1500
agtgtttatt actggtcata gaggccagcc gtatacgtat gatgccagg taaaaaactt 1560
tattcaatgg attagaacaa agtctgattc cggggaacag aagaatatgg ttattggtgg 1620
atattacccc tatccaccag tgccagagac attttccaag tatagtagtt ctattaaagg 1680
tactaatgta attgccagtc cttctaaata tgtttatatt ttatatgtat ggcttatgct 1740
atttcaatta gtcatcttta ttcttttctt ttatgggagt gatctaaagt ttagcaacat 1800
tcaccgataa tagctttgtc ttaatgcaga tctaaaaata tatgtcacgt attttctata 1860
tagttttccc tatatctcgc atggtgctct aaagattaat actttgattt ttatcagact 1920
ggaagaaaag agaaaacaca gatgataacc aactggagat ataggttgag tattcctaata 1980
ccaaaaatcc gaaatctgaa atgttccaaa acctgaaact tctttttttt ttttgagacg 2040
gagtcctcgt ctgtcgccca ggctggagtg cagtggcggg atctcggtc actgcaagct 2100
ccgcctcccg ggttcacgcc attctcctgc ctcggcctcc caaagtgtg ggattacagg 2160
cgtgagccac cgcgcgccgc ctaacctgaa acttcttgag tactgaagtg aactcaaaag 2220
aactactcat tggagcagtt cagattttgg aattttgcat tagggaagct gaactgataa 2280
gtataataca aatattcc 2298

```

<210> 10811  
 <211> 567  
 <212> PRT  
 <213> Homo sapiens

<400> 10811  
 Met Ser Gly Glu Ser Gly Gln Pro Glu Ala Gly Pro Ser His Ala Gly  
 1 5 10 15  
 Leu Asp Trp Pro Asn Pro Glu Arg Asn Arg Ala Gly Ala Pro Gly Gly  
 20 25 30  
 Val Ile Arg Arg Ala Gly Ser Gln Gly Pro Arg Ser Trp Ile Gln Lys  
 35 40 45  
 Val Leu Glu Gln Ile Met Asp Ser Pro Arg Gln Cys Val Thr Pro Ser  
 50 55 60

09629469.072800

Glu	Val	Val	Pro	Val	Thr	Val	Leu	Ala	Val	Gln	Arg	Tyr	Leu	Leu	Glu	65	70	75	80
Asp	Glu	Pro	Arg	Asp	Thr	Val	Pro	Lys	Pro	Pro	Leu	Tyr	Cys	Tyr	Asp	85	90	95	
Val	Thr	Ile	Ser	Asp	Gly	Val	Tyr	Gln	Glu	Lys	Cys	Tyr	Leu	Asp	Pro	100	105	110	
Ser	Leu	Asn	Ser	Leu	Val	Tyr	Gln	Asn	Ile	Leu	Lys	Val	Gly	Ile	Gln	115	120	125	
Met	Arg	Ile	Ser	Arg	Val	Ser	Cys	Leu	Tyr	Asn	Glu	Lys	Arg	Ile	Gly	130	135	140	
Gln	Gly	Ile	Leu	Cys	Ile	Asp	Asn	Val	His	Cys	Gly	Glu	Thr	Ser	Asp	145	150	155	160
Ser	Ile	Ser	Leu	Glu	Thr	Pro	Phe	Arg	Asn	Arg	Ala	His	Gln	Glu	Lys	165	170	175	
Pro	Glu	Arg	Pro	Leu	Arg	Gly	Gly	Lys	Ser	His	Tyr	Leu	Ala	Leu	Trp	180	185	190	
Asn	Asn	Glu	Asp	Pro	Tyr	Gly	Asp	Ile	Trp	Leu	Thr	Asp	Lys	Gln	Pro	195	200	205	
Glu	Glu	His	Asn	Phe	Ser	Asp	Thr	Lys	Ile	Ile	Ser	Leu	Ser	His	Leu	210	215	220	
Glu	Met	Thr	Trp	Thr	Asn	Arg	Arg	Asn	Phe	Pro	Ala	Leu	Leu	Val	Arg	225	230	235	240
Ile	Leu	His	Lys	Ser	Lys	Leu	Arg	Tyr	Tyr	Gly	Lys	Pro	Asp	Lys	Lys	245	250	255	
Met	Ile	Glu	Pro	Tyr	Gln	Thr	Phe	Leu	Glu	Val	Ala	Asp	Ser	Ser	Gly	260	265	270	
Thr	Val	Ser	Val	Ile	Met	Trp	Asn	Ala	Leu	Cys	Pro	Glu	Trp	Tyr	Lys	275	280	285	
Ser	Leu	Arg	Val	Gly	Leu	Val	Leu	Leu	Gln	Asp	Tyr	Ser	Val	Lys		290	295	300	
Lys	Ser	Tyr	Pro	Phe	Arg	Ile	Gln	Pro	Val	Pro	Val	Asp	Pro	Gln	Ile	305	310	315	320
Lys	Leu	Ile	Ser	Thr	Met	Glu	Ile	Cys	Leu	Asn	Leu	Arg	Asp	Pro	Pro	325	330	335	
Thr	Asn	Ile	Ile	Ile	Ile	Pro	Glu	Lys	Gln	Val	Lys	Pro	Glu	Trp	Arg	340	345	350	
Leu	Pro	Lys	Leu	Asn	His	Arg	Phe	Thr	Thr	Arg	Ser	Glu	Leu	Asp	Asp	355	360	365	
Met	Pro	Glu	Asn	Cys	Ile	Cys	Asp	Val	Ile	Gly	Leu	Leu	Val	Phe	Val	370	375	380	
Gly	Arg	Val	Gln	Arg	Ser	Lys	Lys	Lys	Glu	Asn	Arg	Glu	Asp	Phe	Trp	385	390	395	400
Ser	Tyr	Arg	Trp	Ile	His	Ile	Ala	Asp	Gly	Thr	Ser	Glu	Gln	Pro	Phe	405	410	415	
Ile	Val	Glu	Leu	Phe	Ser	Thr	Ser	Gln	Pro	Glu	Ile	Phe	Glu	Asn	Ile	420	425	430	
Tyr	Pro	Met	Ala	Tyr	Phe	Val	Cys	Thr	Gln	Leu	Lys	Val	Val	Arg	Asn	435	440	445	

009270.69462960

Asp Asn Gln Val Pro Lys Leu Leu Tyr Leu Thr Thr Thr Asn Glu Ser  
 450 455 460  
 Gly Val Phe Ile Thr Gly His Arg Gly Gln Pro Tyr Thr Tyr Asp Ala  
 465 470 475 480  
 Lys Val Lys Asn Phe Ile Gln Trp Ile Arg Thr Lys Ser Asp Ser Gly  
 485 490 495  
 Glu Gln Lys Asn Met Val Ile Gly Gly Tyr Tyr Pro Tyr Pro Pro Val  
 500 505 510  
 Pro Glu Thr Phe Ser Lys Tyr Ser Ser Ser Ile Lys Gly Thr Asn Val  
 515 520 525  
 Ile Ala Ser Pro Ser Lys Tyr Val Tyr Ile Leu Tyr Val Trp Leu Met  
 530 535 540  
 Leu Phe Gln Leu Val Ile Phe Ile Leu Phe Phe Tyr Gly Ser Asp Leu  
 545 550 555 560  
 Lys Phe Ser Asn Ile His Arg  
 565

<210> 10812  
 <211> 1966  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (43).. (1599)

<400> 10812  
 tggatgacca tttgatgccca gttgggaaag agactgttaa atatgaagag gagcttgatt 60  
 tgcattgatga agaagagacc agtgttccag gaagaccagg ttccacgaaa cgaaggcagt 120  
 gctacccaaa agcagttagt attgattcca gagtgtttga gggatagtta tcccagacct 180  
 gatcagccct gttacctgta tgtgatagga atgggtttta ctacaccttt acctgatgaa 240  
 ctcaacttta gaaggcggaa gctctatcct cctgaagata ccacaagatg ctttgggaata 300  
 ctgacggcca aaccataacc tcagattcca cactttcctg tgtacacacg ctctggagag 360  
 gttaccatat ccattgagtt gaagaagtct gggttcatgt tgtctctaca aatgcttgag 420  
 ttgattacaa gacttcacca gtatatattc tcacatattc ttgggcttga aaaacctgca 480  
 ctagaattta aacctacaga cgctgattca gcatactgtg ttctacctct taatgttggt 540  
 aatgactcca gcactttgga tattgacttt aaattcatgg aagatattga gaagtctgaa 600  
 gctcgcatag gcattcccag taaaaagtat aaaaaagaaa caccctttgt ttttaaatta 660  
 gaagattacc aagatgccgt tatcattcca agatatcgca attttgatca gcctcatcga 720  
 ttttatgtag ctgatgtgta cactgatctt accccactca gtaaatttcc tcccctgag 780  
 tatgaaaactt ttgcagaata ttataaaaca aagtacaacc ttgacctaac caatctcaac 840  
 cagccactgc tggatgtgga ccacacatct tcaagactta atcttttgac acctcgacat 900  
 ttgaatcaga aggggaaagc gcttccctta agcagtgtct agaagaggaa agccaaatgg 960  
 gaaagtctgc agaataaaca gatactggtt ccagaactct gtgctataca tccaattcca 1020  
 gcatcactgt ggagaaaagc tgtttgtctc cccagcatac tttatcgctt tcaactgcctt 1080  
 ttgactgcag aggagctaag agcccagact gccagcgatg ctggcgtggg agtcagatca 1140  
 ctctctgcgg attttagata ccctaactta gacttcgggt ggaaaaaatc tattgacagc 1200

```

aaatctttca tctcaatttc taactcctct tcagctgaaa atgataatta ctgtaagcac 1260
agcacaattg tccctgaaaa tgctgcacat caagggtgcta atagaacctc ctctctagaa 1320
aatcatgacc aaatgtctgt gaactgcaga acgttgctca gcgagtcccc tggtaagctc 1380
cacgttgaag tttcagcaga tcttacagca attaatggtc tttcttacia tcaaaatctc 1440
gccaatggca gttatgattt agctaacaga gacttttgcc aaggaaatca gctaaattac 1500
tacaagcagg aaatacccggt gcaaccaact acctcatatt ccattcagaa tttatcagtt 1560
acgagaacca gccccagccc agcgatgaat gtactctcct gagtaataaa taccttgatg 1620
gaaatgctaa caaatctacc tcagatggaa gtactgtgat ggccgtaatg cctgggtacga 1680
cagacactat tcaagtgtct aagggcagga tggattctga gcagagccct tctattgggt 1740
actcctcaag gactcttggc cccaatcctg gacttattct tcaggctttg actctgtcaa 1800
acgctagtga cggatttaac ctggagcggc ttgaaatgct tggcgactcc tttttaagc 1860
atgccatcac cacatatcta ttttgacctt acctgatgc gcattgagggc cgcctttcat 1920
atatgagaag caaaaaggct agcaactgta atctgtatcg ccttgg 1966

```

<210> 10813  
 <211> 519  
 <212> PRT  
 <213> Homo sapiens

<400> 10813

Met	Lys	Arg	Ser	Leu	Ile	Cys	Met	Met	Lys	Lys	Arg	Pro	Val	Phe	Gln
1				5					10					15	
Glu	Asp	Gln	Val	Pro	Arg	Asn	Glu	Gly	Ser	Ala	Thr	Gln	Lys	Gln	Leu
			20					25					30		
Val	Leu	Ile	Pro	Glu	Cys	Leu	Arg	Asp	Ser	Tyr	Pro	Arg	Pro	Asp	Gln
		35					40					45			
Pro	Cys	Tyr	Leu	Tyr	Val	Ile	Gly	Met	Val	Leu	Thr	Thr	Pro	Leu	Pro
	50					55					60				
Asp	Glu	Leu	Asn	Phe	Arg	Arg	Arg	Lys	Leu	Tyr	Pro	Pro	Glu	Asp	Thr
65					70					75				80	
Thr	Arg	Cys	Phe	Gly	Ile	Leu	Thr	Ala	Lys	Pro	Ile	Pro	Gln	Ile	Pro
				85					90					95	
His	Phe	Pro	Val	Tyr	Thr	Arg	Ser	Gly	Glu	Val	Thr	Ile	Ser	Ile	Glu
			100					105					110		
Leu	Lys	Lys	Ser	Gly	Phe	Met	Leu	Ser	Leu	Gln	Met	Leu	Glu	Leu	Ile
		115					120					125			
Thr	Arg	Leu	His	Gln	Tyr	Ile	Phe	Ser	His	Ile	Leu	Arg	Leu	Glu	Lys
	130					135					140				
Pro	Ala	Leu	Glu	Phe	Lys	Pro	Thr	Asp	Ala	Asp	Ser	Ala	Tyr	Cys	Val
145					150					155				160	
Leu	Pro	Leu	Asn	Val	Val	Asn	Asp	Ser	Ser	Thr	Leu	Asp	Ile	Asp	Phe
			165					170					175		
Lys	Phe	Met	Glu	Asp	Ile	Glu	Lys	Ser	Glu	Ala	Arg	Ile	Gly	Ile	Pro
		180					185						190		
Ser	Thr	Lys	Tyr	Thr	Lys	Glu	Thr	Pro	Phe	Val	Phe	Lys	Leu	Glu	Asp
		195				200						205			
Tyr	Gln	Asp	Ala	Val	Ile	Ile	Pro	Arg	Tyr	Arg	Asn	Phe	Asp	Gln	Pro

00022.0" 69462960

-4287/13211-

210	215	220
His Arg Phe Tyr Val	Ala Asp Val Tyr Thr Asp	Leu Thr Pro Leu Ser
225	230	235
Lys Phe Pro Ser Pro	Glu Tyr Glu Thr Phe Ala	Glu Tyr Tyr Lys Thr
245	250	255
Lys Tyr Asn Leu Asp	Leu Thr Asn Leu Asn Gln	Pro Leu Leu Asp Val
260	265	270
Asp His Thr Ser Ser	Arg Leu Asn Leu Leu Thr	Pro Arg His Leu Asn
275	280	285
Gln Lys Gly Lys Ala	Leu Pro Leu Ser Ser Ala	Glu Lys Arg Lys Ala
290	295	300
Lys Trp Glu Ser Leu	Gln Asn Lys Gln Ile Leu	Val Pro Glu Leu Cys
305	310	315
Ala Ile His Pro Ile	Pro Ala Ser Leu Trp Arg	Lys Ala Val Cys Leu
325	330	335
Pro Ser Ile Leu Tyr	Arg Leu His Cys Leu	Leu Thr Ala Glu Leu
340	345	350
Arg Ala Gln Thr Ala	Ser Asp Ala Gly Val Gly	Val Arg Ser Leu Pro
355	360	365
Ala Asp Phe Arg Tyr	Pro Asn Leu Asp Phe Gly	Trp Lys Lys Ser Ile
370	375	380
Asp Ser Lys Ser Phe	Ile Ser Ile Ser Asn Ser	Ser Ser Ala Glu Asn
385	390	395
Asp Asn Tyr Cys Lys	His Ser Thr Ile Val Pro	Glu Asn Ala Ala His
405	410	415
Gln Gly Ala Asn Arg	Thr Ser Ser Leu Glu Asn	His Asp Gln Met Ser
420	425	430
Val Asn Cys Arg Thr	Leu Leu Ser Glu Ser Pro	Gly Lys Leu His Val
435	440	445
Glu Val Ser Ala Asp	Leu Thr Ala Ile Asn Gly	Leu Ser Tyr Asn Gln
450	455	460
Asn Leu Ala Asn Gly	Ser Tyr Asp Leu Ala Asn	Arg Asp Phe Cys Gln
465	470	475
Gly Asn Gln Leu Asn	Tyr Tyr Lys Gln Glu Ile	Pro Val Gln Pro Thr
485	490	495
Thr Ser Tyr Ser Ile	Gln Asn Leu Ser Val Thr	Arg Thr Ser Pro Ser
500	505	510
Pro Ala Met Asn Val	Leu Ser	
515		

<210> 10814

<211> 1892

<212> DNA

<213> Homo sapiens

<400> 10814

agacaatgct gtaattaggt gaactctaaa actgcaacat ctgacaaata gctttaaaaa 60

09629469.072300

0092240 69462960

```
tacaatgatt ataagtatgg aatcagtgaa aatatttagt ttgtatTTTT atgtccaaac 120
ttttccattt tagattcctt tatagacacg tcagcctaaa aatcagccta ttcgggtgtt 180
cttttgaata tctcctggca tttttgtatc taactttgtt caatctggga atttcagttt 240
tcaatatcct tgaaaatggc ttaagtgata acttccgttt cagttaaaag gaagcccgaa 300
gttgtgtttg tgctgcccac aggacagtgg gagttacagt tcatatcagg atgaccctac 360
ataccaggt cagattgacg ggaccagaag ggaacatoga cttctaattc agctttcttg 420
tttaattatg acctaaatct aatttacttc cactgaacca tccaagacct ctggcaggca 480
gggaaatggg cagtgatgca aaaaaggagg actctttgga gcttttatga atagttcatg 540
gtgaggacag aacttttcta ctttcagaca gactgcttgc tagttttatg aattcagcac 600
acgaattatg ctgtgttgct cacattcaaa ccaaaccacg gactatgttt aatgaactca 660
gtattcaaat ttattatata tgcgtatata tgtatatatg gatcccttat atttagattt 720
aactcgtagt tttatttgaa agtagaaaag aactctacaa aaacgggaag aatgtgtctt 780
tcttcccttc ttgacttcta ataggtgtca ttgaaatgta aaatctaagt atgaaattat 840
gaaaggacat tctttaatta ctgcccactc aacacatatt taatatgtgc ccagattatt 900
ctaaaatctt aaaaaaagat gcatatagtg aaatttttta aatggatata cttttaataa 960
agttttataa ctactgaca aaacatattt caatagtata tgagtatgag atttcttatt 1020
aattatgagt gaaatattct atctgaatgc attggaaggc atttacagta tttgctttca 1080
acagttactg agtatgacat tttagcatga aatatatcaa acacatcatt tgaaggacat 1140
atgtaatctt gactatgggt atggtttttt tgtatgtatt ccttgttttc atattgatag 1200
catctaattc ttttgacaat cttaatatgt agattcattt aaattttaag acagttcagt 1260
gcatatatag tagaagcctt aagaaaaaag aaaatgagca agcaaatatt tgaagaaatg 1320
tataaaacca tagatttctt tcagaaaaaa aaaaacaggc ataggaacag ttttctcttc 1380
atatattatg attatgaata ataggaaagt tgtattaatt cagtatttgt cattatgcag 1440
tattttaata cctacataag tctattccat tattatattt tgcgcttggc atattttattc 1500
ctttatgctt ttaatcacta acatatttta cttaagagta taaaactatg ctaaataaat 1560
tgtattgtat atggaatatg cttgccatta tgaagaacag ctgggtatac cattatttca 1620
agtaataaat ctgaattcta ttagttttaa aattgtaaaa ttcaagttaa atgacgtgta 1680
tgatataagc tgaacatatt ttctatagcc cttaatttag ttgtgttaat ttttcgaggt 1740
gatgtatcaa cagctttttt tattttgcat ttgttttttc aatgtgttta cattgtatga 1800
attgagcttt ttgccacag attcttgatt tgtagttgtt tggcaggatt tttctttgtg 1860
atataatcac ttctatagaa aatatgatgt ac 1892
```

<210> 10815  
 <211> 1453  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (143).. (1318)

```
<400> 10815
actctccctg caggtgactg acggcgccgg ccgcccctgc ccgtcgcccg cccgctgctg 60
ccgcccgcgc ggggtgtgga gcccgccgcg tgctcgccgg ctgagtgtct gtcgctgctg 120
ccgcctccac ccagcctccg ccatggacct cttcggggac ctgccggagc ccgagcgctc 180
gccgcgcccg gctgccggga aagaagctca gaaaggacct ctgctctttg atgacctccc 240
tccggccagc agtactgact caggatcagg gggacctttg ctttttgatg atctcccacc 300
```

```

cgctagcagt ggcgattcag gttctcttgc cacatcaatg tcccagatgg taaagactga 360
agggaaagga gcaaagagaa aaacctccga ggaagagaag aatggcagtg aagagcttgt 420
ggaaaagaaa gtttgtaaag cctcttcggt gatcttttgt ctgaagggt atgtggctga 480
gcggaagggt gagaggagg agatgcagga tgcccacgtc atcctgaacg acatcaccca 540
ggagtgtagg ccccatcgt cctcattac tcgggtttca tttttgtctg tttttgatgg 600
acatggagga attcgagcct caaaatttgc tgcacagaat ttgcatcaaa acttaatcag 660
aaaatttcct aaaggagatg taatcagtgt agagaaaacc gtgaagagat gccttttgga 720
cactttcaag catactgatg aagagttcct taaacaagct tccagccaga agcctgcctg 780
gaaagatggg tccactgcca cgtgtgttct ggctgtagac aacattcttt atattgccaa 840
cctcggagat agtcgggcaa tcttgtgtcg ttataatgag gagagtcaaa aacatgcagc 900
cttaagcctc agcaaagagc ataatccaac tcagtatgaa gagcggatga ggatacagaa 960
ggctggagga aacgtcaggg atgggcgtgt tttgggcgtg ctagagggtg cacgctccat 1020
tggggacggg cagtacaagc gctgcggtgt cacctctgtg cccgacatca gacgctgcca 1080
gctgaccccc aatgacaggt tcattttgtt ggctgtgat gggctcttca aggtctttac 1140
cccagaagaa gccgtgaact tcattctgtc ctgtctcgag gatgaaaaga tccagaccgg 1200
ggaagggag tccgcagccg acgcccgtc cgaagcagcc tgcaacaggc tggccaacaa 1260
ggcgtgtcag cggggctcag ccgacaacgt cactgtgatg gtggtgcgga tagggcactg 1320
aggggtggcg cgcggccagg agcacgcatt gtattgactt aaaaggttca ttttgttgtt 1380
gtgcacattg tgtgttttgt gtactcctgt gggactccca tggttgtaaa taaaggtttc 1440
tctttttttt cct 1453

```

<210> 10816  
 <211> 392  
 <212> PRT  
 <213> Homo sapiens

<400> 10816

Met	Asp	Leu	Phe	Gly	Asp	Leu	Pro	Glu	Pro	Glu	Arg	Ser	Pro	Arg	Pro
1				5				10					15		
Ala	Ala	Gly	Lys	Glu	Ala	Gln	Lys	Gly	Pro	Leu	Leu	Phe	Asp	Asp	Leu
			20					25					30		
Pro	Pro	Ala	Ser	Ser	Thr	Asp	Ser	Gly	Ser	Gly	Gly	Pro	Leu	Leu	Phe
			35				40					45			
Asp	Asp	Leu	Pro	Pro	Ala	Ser	Ser	Gly	Asp	Ser	Gly	Ser	Leu	Ala	Thr
		50				55				60					
Ser	Met	Ser	Gln	Met	Val	Lys	Thr	Glu	Gly	Lys	Gly	Ala	Lys	Arg	Lys
65				70					75					80	
Thr	Ser	Glu	Glu	Glu	Lys	Asn	Gly	Ser	Glu	Glu	Leu	Val	Glu	Lys	Lys
			85					90					95		
Val	Cys	Lys	Ala	Ser	Ser	Val	Ile	Phe	Gly	Leu	Lys	Gly	Tyr	Val	Ala
			100					105				110			
Glu	Arg	Lys	Gly	Glu	Arg	Glu	Glu	Met	Gln	Asp	Ala	His	Val	Ile	Leu
		115				120				125					
Asn	Asp	Ile	Thr	Glu	Glu	Cys	Arg	Pro	Pro	Ser	Ser	Leu	Ile	Thr	Arg
	130					135				140					
Val	Ser	Tyr	Phe	Ala	Val	Phe	Asp	Gly	His	Gly	Gly	Ile	Arg	Ala	Ser
145				150				155						160	

009220" 69462960



Lys Phe Ala Ala Gln Asn Leu His Gln Asn Leu Ile Arg Lys Phe Pro  
165 170 175  
Lys Gly Asp Val Ile Ser Val Glu Lys Thr Val Lys Arg Cys Leu Leu  
180 185 190  
Asp Thr Phe Lys His Thr Asp Glu Glu Phe Leu Lys Gln Ala Ser Ser  
195 200 205  
Gln Lys Pro Ala Trp Lys Asp Gly Ser Thr Ala Thr Cys Val Leu Ala  
210 215 220  
Val Asp Asn Ile Leu Tyr Ile Ala Asn Leu Gly Asp Ser Arg Ala Ile  
225 230 235 240  
Leu Cys Arg Tyr Asn Glu Glu Ser Gln Lys His Ala Ala Leu Ser Leu  
245 250 255  
Ser Lys Glu His Asn Pro Thr Gln Tyr Glu Glu Arg Met Arg Ile Gln  
260 265 270  
Lys Ala Gly Gly Asn Val Arg Asp Gly Arg Val Leu Gly Val Leu Glu  
275 280 285  
Val Ser Arg Ser Ile Gly Asp Gly Gln Tyr Lys Arg Cys Gly Val Thr  
290 295 300  
Ser Val Pro Asp Ile Arg Arg Cys Gln Leu Thr Pro Asn Asp Arg Phe  
305 310 315 320  
Ile Leu Leu Ala Cys Asp Gly Leu Phe Lys Val Phe Thr Pro Glu Glu  
325 330 335  
Ala Val Asn Phe Ile Leu Ser Cys Leu Glu Asp Glu Lys Ile Gln Thr  
340 345 350  
Arg Glu Gly Lys Ser Ala Ala Asp Ala Arg Tyr Glu Ala Ala Cys Asn  
355 360 365  
Arg Leu Ala Asn Lys Ala Val Gln Arg Gly Ser Ala Asp Asn Val Thr  
370 375 380  
Val Met Val Val Arg Ile Gly His  
385 390

<210> 10817  
<211> 1303  
<212> DNA  
<213> Homo sapiens

<400> 10817  
tgtcacatga cgaaaggag caagagagag aatgggaggt cccagacttt tataaacaac 60  
cagatctcac gtgaactgag tgagaacaca cttatcaatc accatgggga ctcatgagag 120  
gaccaccccc taccatga ttcagtatct cccactagga cccacctctg acattgggga 180  
tcacatttca acatgaaatt tgcaggggac acacatccaa accatagcat atggttaagg 240  
aagattaaga aattcaatag cacattgcct ttattatcat cgaggatgaa gatgttacgg 300  
ttttcatatg tcattaagta aacaaaatga cgtgtgccac acatagtagc tcatagtcca 360  
ctgggaacgc agttacttgt tcagtctgtt ttctacaaag tcatgtgaga tactgatttt 420  
tccttcgcat tgttgatata tgggtgagaa taaggatatt gttaaattgg tatttccctt 480  
ttttgtgttt taagtgatag tgggtgcatt caacttatct ttgcagttga atgaagaatg 540  
aatgacattg agcattattg tttgttttat ccatgtccat tattagtttt totttgcttt 600

09629469.072800

tgccagcagt	gtgactattg	gccctgcccc	gagccatttg	caatcttaca	atagttaagt	660
gtagcactg	aaagatacta	atgttaagaa	cagatgtcta	ctgtctgatt	attgggaaaa	720
tattagtgtt	tcttagttaga	agcaacacag	ttttttttaa	tactagattt	ctcattctga	780
gtctatacac	aattttctat	gaatcataaa	actttgataa	ttatgatagt	ctaataat	840
actagttgta	aaaatgaaac	ttattttgct	gtgatgtttc	acaattgaaa	agcctttttt	900
tttttttaag	gcgtagtact	aattcttaag	acagtgttta	tctaattgtc	cagtcccagg	960
attcgttgga	atcagagaca	ttttcttagg	gggtctataa	gaatttcctt	taaaaggcat	1020
ccgtaggctg	cgtgcagtgg	ctcacgcctg	taatcccagc	actttgggag	tccaagggtg	1080
gcggttcacc	tgaggtcagg	agtttgagac	cagcctggcc	aagggtgtga	aacctgttac	1140
taaaaatgta	aaaattagct	ggacgtggtg	gcgggtgcct	gtaatcccag	ctactcagga	1200
agctgagtca	gaagaatcgc	ttgaacttgg	gaggcagagg	ttgcagtgag	ctgagattgc	1260
accactgcac	tccagcctgg	gagacagagc	aaggctctat	ctc		1303

<210> 10818  
 <211> 1940  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1566).. (1928)

<400> 10818						
tttttctgat	cttggcaaaa	atgtttcccc	acgtacaaaac	tgatgtcctt	gtgcgggtca	60
agggaccttt	gctagctgcc	tgttcttcag	agagccgtga	gctctgtttt	gttgctcttt	120
gtcatgtacg	ccagatcttg	catagttttac	caggtcactt	tagcagccac	tacaaaaagt	180
ttttttgctc	ctactcggag	ccccactaca	tcaaactaca	gaaagtggag	gtgctgtgtg	240
aactgggtgaa	cgatgagaat	gtgcagcagg	tgctagagga	gcttcgaggg	tactgcacgg	300
atgtgtctgc	ggactttgca	caggctgcca	tctttgccat	agggtggcatt	gccaggactt	360
acacagatca	atgtgttcag	attttaacag	agttgctggg	tcttcgacaa	gagcacatta	420
ccacagtggg	ggtgcagact	ttccgagacc	tggtttgggt	gtgtcctcag	tgtactgaag	480
ctgtatgtca	ggccctgccc	ggctgtgaag	agaacattca	agatagtgag	gggaagcaag	540
cacttatttg	gctacttggt	gtccatgggg	aaagaattcc	taatgctcct	tatgtgttag	600
aggactttgt	tgagaatgtg	aagtcggaaa	catttccagc	tgtaaatgat	gagctgctca	660
ctgctttgct	gcgccttttc	ctctcccgac	ctgctgagtg	ccaggacatg	ctaggacgtt	720
tgttgtatta	ctgcataggt	gggtttttca	gaaggaaata	gtatttgcca	tgacctatag	780
taaaaattct	taatagcttt	cattgttttg	tgagtcacgt	ctgggacccg	agaagaaaat	840
gtgaatgctt	cctaggtttt	cctctctcct	tcattttttt	ctcctattat	ggttggcaca	900
agagtaggag	gaaagtgggt	ttgtttttta	tgaagtcaat	ctgttgctct	acctcagagg	960
aagaaaaaga	tatggctgta	cgggaccgag	gtctcttcta	ttatgcctc	ctcttagattg	1020
gcattgatga	agttaagcgg	attctgtgta	gccctaaatc	tgacctact	cttggacttt	1080
tggaggatcc	ggcagaaaga	cctgtgaata	gctgggcctc	agacttcaac	acactggtgc	1140
cagtgtatgg	caaagcccac	tgggcaacta	tctctaaatg	ccagggggca	gagcgttgtg	1200
accagagct	tcctaaaact	tcctcttttg	ccgcatcagg	taaaaacagt	ccttacctta	1260
aatcttgtca	tgataaatct	ttaccttttc	aatgattggg	ggaaagtaga	gtatcttagc	1320
actaaacctc	agactgttgc	ctgaatttga	agcatttgtg	agcaagaaag	aggttcgtca	1380
ctggttattt	cagccatttg	tccaaaaata	aaagtcacat	tgtgtacatt	tgggaatttg	1440

gataaaaaac ttagctccta cagattaaga acatctttca cacaagtttt ctgtctcttt 1500  
taggaccctt gattcctgaa gagaacaagg agaggggtaca agaactccct gattctggag 1560  
ccctcatgct agtccccaat cgccagctta ctgttgatta ttttgagaaa acttggctta 1620  
gccttaaagt tgctcatcgg caagtgttgc cttggcgggg agaattccat cctgacaccc 1680  
tccagatggc tcttcaagta gtgaacatcc agaccatcgc aatgagtagg gctgggtctc 1740  
ggccatggaa agcatacctc agtgctcagg atgatactgg ctgtctgttc ttaacagaac 1800  
tgctattgga gcctggaaac tcagaaatgc agatctctgt gaaacaaaat gaagcaagaa 1860  
cggagacgct gaatagtttt atttctgtat tagaaactgt gattggaaca attgaagaaa 1920  
taaaatcata acagagtctt 1940

<210> 10819  
<211> 121  
<212> PRT  
<213> Homo sapiens

<400> 10819  
Met Leu Val Pro Asn Arg Gln Leu Thr Ala Asp Tyr Phe Glu Lys Thr  
1 5 10 15  
Trp Leu Ser Leu Lys Val Ala His Arg Gln Val Leu Pro Trp Arg Gly  
20 25 30  
Glu Phe His Pro Asp Thr Leu Gln Met Ala Leu Gln Val Val Asn Ile  
35 40 45  
Gln Thr Ile Ala Met Ser Arg Ala Gly Ser Arg Pro Trp Lys Ala Tyr  
50 55 60  
Leu Ser Ala Gln Asp Asp Thr Gly Cys Leu Phe Leu Thr Glu Leu Leu  
65 70 75 80  
Leu Glu Pro Gly Asn Ser Glu Met Gln Ile Ser Val Lys Gln Asn Glu  
85 90 95  
Ala Arg Thr Glu Thr Leu Asn Ser Phe Ile Ser Val Leu Glu Thr Val  
100 105 110  
Ile Gly Thr Ile Glu Glu Ile Lys Ser  
115 120

<210> 10820  
<211> 2082  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (39).. (1394)

<400> 10820  
tgcattatcc aacaggtgaa gttccatttc caagaggcoat gaaagggcaa gactttgaaa 60  
aatcagatca tggttcttct caaaatacca gcatgtctag catctatcag aattgtgcaa 120  
tggaggtttt gatgtccagt tgttcacagt gtagagcttg tggagcttta gtttatgatg 180

0969469.07800  
008240"69462960

009220" 69462960

```

aagaaattat ggctggatgg acagcagatg actcaaattt gaatacagct tgtccattct 240
gtaaaagcaa cttcttgcct cttctcaata tagaattcaa agatttgaga ggttctgcaa 300
gctttttcct gaaaccaagt acctctgggt acagtttaca aagtggaagc attccatttg 360
caaatgaatc cttggagcac aaacctgtat ccagtttagc agaacctgac ttgatcaact 420
ttatggactt cccaaaacat aaccagatca taactgaaga aacaggctct gcagttgaac 480
caagtgatga aataaagaga gccagtgagg atgtccaaac tatgaaaatt tcatctgtgc 540
ctaatagttt atcaaagcga aatgtgtctt tgactogaag tcacagtgtt ggaggcccat 600
tgcagaatat tgactttacc cagcgaccgt ttctgtggcat ctcaacagtt agtcttccaa 660
atagtctgca ggaagttgtg gatccttttag gaaaaagacc caatcctccc cctgtttctg 720
tgccctactt gagtccctcta gtactccgta aagaacttga atcttttgcta gaaaatgaag 780
gtgatcaggt gattcataca tcttctttca tcaatcaaca tccaatcatt ttctggaacc 840
tcgtttggta ttccagacgt ttggaccttc ctagtaactt gccaggactt atcctcacat 900
ctgaacattg taatgaaggt gtacagcttc ctctgtcctc totgtcccag gatagcaaac 960
ttgtgtatat tcagctgtta tgggataata tcaaccttca tcaggaacca agagaacctc 1020
tgtatgtctc atggaggaat ttttaattctg aaaagaaatc atctctcctg tcagaggaac 1080
aacaagaaac aagcacttta gtagaaacca tcaggcagag tattcagcac aataatgttc 1140
ttaaacccat caacctactt tcacagcaaa tgaagccagg catgaaaaga caaaggagtt 1200
tatacagaga aatcctcttc ttatcattag tgtctctagg aagagagaat attgatattg 1260
aggcatttga caatgaatat ggaattgcat acaatagtct gtcttcagag attcttgaag 1320
ggttgacaga aattgatgct ccaccaagtg ccagtgtcga gtggtgcagg aagtgttttg 1380
gagcgctctc catttaaata gagattcact agaattgtga cacacaaggc ttggggatta 1440
gatttcatct ggaaacattc aagttttttt ttccaaatcg taagaactgg tgaatacgga 1500
attgaagtaa ctcttgggga caatatataa tgaattatga ttcataattg attaccttga 1560
aatatgaagt gccatttgaa tgtcccaggg cttattaata ttgaagattt tcaaccctg 1620
aactgctttt ctgcctctgt ggaaaactac tttgggattc ttcagtattt gtagtagttt 1680
gatagaaata atgaggaacc atattcattc taggcattgt ttatatttga agttactgag 1740
tttgaggaat ggcaaattaa atttgcctaa cccccaaaac aaatgaaata tctcaattat 1800
aaaagcaaca tggccgggca cgggtggctca ggccgtgtaat ccagcactt tgggaggctg 1860
agcaagggtg gtggatcact tgaggccagg agttcgagac cagcctggcc aacacggtga 1920
gacctgtctt ttactaaaaa tacaaaaatt agccaggcgc accactgtag tcccagctac 1980
tcaggctgag gcaggagaat cgcttgaact gaggcagagg ctacagtgag tggagatcac 2040
gccactgcaa ctccagcttg ggtgacggag tgagaccgtc tc 2082

```

<210> 10821  
 <211> 452  
 <212> PRT  
 <213> Homo sapiens

<400> 10821  
 Met Lys Gly Gln Asp Phe Glu Lys Ser Asp His Gly Ser Ser Gln Asn  
 1 5 10 15  
 Thr Ser Met Ser Ser Ile Tyr Gln Asn Cys Ala Met Glu Val Leu Met  
 20 25 30  
 Ser Ser Cys Ser Gln Cys Arg Ala Cys Gly Ala Leu Val Tyr Asp Glu  
 35 40 45  
 Glu Ile Met Ala Gly Trp Thr Ala Asp Asp Ser Asn Leu Asn Thr Ala  
 50 55 60

Cys	Pro	Phe	Cys	Lys	Ser	Asn	Phe	Leu	Pro	Leu	Leu	Asn	Ile	Glu	Phe	65	70	75	80
Lys	Asp	Leu	Arg	Gly	Ser	Ala	Ser	Phe	Phe	Leu	Lys	Pro	Ser	Thr	Ser	85	90	95	
Gly	Asp	Ser	Leu	Gln	Ser	Gly	Ser	Ile	Pro	Leu	Ala	Asn	Glu	Ser	Leu	100	105	110	
Glu	His	Lys	Pro	Val	Ser	Ser	Leu	Ala	Glu	Pro	Asp	Leu	Ile	Asn	Phe	115	120	125	
Met	Asp	Phe	Pro	Lys	His	Asn	Gln	Ile	Ile	Thr	Glu	Glu	Thr	Gly	Ser	130	135	140	
Ala	Val	Glu	Pro	Ser	Asp	Glu	Ile	Lys	Arg	Ala	Ser	Gly	Asp	Val	Gln	145	150	155	160
Thr	Met	Lys	Ile	Ser	Ser	Val	Pro	Asn	Ser	Leu	Ser	Lys	Arg	Asn	Val	165	170	175	
Ser	Leu	Thr	Arg	Ser	His	Ser	Val	Gly	Gly	Pro	Leu	Gln	Asn	Ile	Asp	180	185	190	
Phe	Thr	Gln	Arg	Pro	Phe	Arg	Gly	Ile	Ser	Thr	Val	Ser	Leu	Pro	Asn	195	200	205	
Ser	Leu	Gln	Glu	Val	Val	Asp	Pro	Leu	Gly	Lys	Arg	Pro	Asn	Pro	Pro	210	215	220	
Pro	Val	Ser	Val	Pro	Tyr	Leu	Ser	Pro	Leu	Val	Leu	Arg	Lys	Glu	Leu	225	230	235	240
Glu	Ser	Leu	Leu	Glu	Asn	Glu	Gly	Asp	Gln	Val	Ile	His	Thr	Ser	Ser	245	250	255	
Phe	Ile	Asn	Gln	His	Pro	Ile	Ile	Phe	Trp	Asn	Leu	Val	Trp	Tyr	Phe	260	265	270	
Arg	Arg	Leu	Asp	Leu	Pro	Ser	Asn	Leu	Pro	Gly	Leu	Ile	Leu	Thr	Ser	275	280	285	
Glu	His	Cys	Asn	Glu	Gly	Val	Gln	Leu	Pro	Leu	Ser	Ser	Leu	Ser	Gln	290	295	300	
Asp	Ser	Lys	Leu	Val	Tyr	Ile	Gln	Leu	Leu	Trp	Asp	Asn	Ile	Asn	Leu	305	310	315	320
His	Gln	Glu	Pro	Arg	Glu	Pro	Leu	Tyr	Val	Ser	Trp	Arg	Asn	Phe	Asn	325	330	335	
Ser	Glu	Lys	Lys	Ser	Ser	Leu	Leu	Ser	Glu	Glu	Gln	Gln	Glu	Thr	Ser	340	345	350	
Thr	Leu	Val	Glu	Thr	Ile	Arg	Gln	Ser	Ile	Gln	His	Asn	Asn	Val	Leu	355	360	365	
Lys	Pro	Ile	Asn	Leu	Leu	Ser	Gln	Gln	Met	Lys	Pro	Gly	Met	Lys	Arg	370	375	380	
Gln	Arg	Ser	Leu	Tyr	Arg	Glu	Ile	Leu	Phe	Leu	Ser	Leu	Val	Ser	Leu	385	390	395	400
Gly	Arg	Glu	Asn	Ile	Asp	Ile	Glu	Ala	Phe	Asp	Asn	Glu	Tyr	Gly	Ile	405	410	415	
Ala	Tyr	Asn	Ser	Leu	Ser	Ser	Glu	Ile	Leu	Glu	Arg	Leu	Gln	Lys	Ile	420	425	430	
Asp	Ala	Pro	Pro	Ser	Ala	Ser	Val	Glu	Trp	Cys	Arg	Lys	Cys	Phe	Gly	435	440	445	

00629469-072800

Ala Pro Leu Ile  
450

<210> 10822  
<211> 2033  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (3)..(1466)

<400> 10822  
agatgtccgg ccggtctaag cgggagtcct gcggttccac tcgcgggaag cgagagtctg 60  
agtcgcgggg cagctccgggt cgcgtcaagc gggagcgaga tcgggagcgg gagcctgagg 120  
cggcgagctc ccggggcagc cctgtgcgcg tgaagcggga gticgagccg gcgagcgcgc 180  
gogaggcccc ggcttctgtt gtcccgtttg tgcgggtgaa gcgggagcgc gaggtcgatg 240  
aggactcgga gcctgagcgg gaggtgcgag caaagaatgg ccgagtggat tctgaggacc 300  
ggaggagccg ccactgcccg tacctggaca ccattaacag gagtgtgctg gactttgact 360  
ttgagaaact gtgttctatc tccctctcac acatcaatgc ttatgcctgt ctggtgtgtg 420  
gcaagtaact tcaaggccgg ggtttgaagt ctacgccta cattcacagt gtccagtta 480  
gccaccatgt tttcctcaac ctccacacc tcaagtttta ctgccttcca gacaactatg 540  
agatcatcga ttcctcattg gaggatatca cgtatgtgtt gaagcccact ttcacaaaagc 600  
agcaaattgc aaacttggac aagcaagcca aattgtcccg ggcatatgat ggtaccactt 660  
acctgccggg tattgtggga ctgaataaca taaaggccaa tgattatgcc aacgctgtcc 720  
ttcaggctct atctaattgt cctcctctcc ggaactactt totggaagaa gacaattata 780  
agaacatcaa acgtcctcca ggggatatca tgttcttgtt ggtccagcgt tctggagagc 840  
cgatgagaaa gctctggaac cctcgaaatt tcaaggcaca tgcgtctccc catgagatgc 900  
ttcaggcagt tgtactttgc agtaagaaga cttttcagat caccaaaaca ggagatggcg 960  
ttgactttct gtcttggttt ctgaatgctc tgcactcagc tctggggggc acaagaaga 1020  
aaaagaagac tattgtgact gatgttttcc aggggtccat gaggatcttc actaaaaagc 1080  
ttccccatcc tgatctgccg gcagaagaaa aagagcagtt gctccataat gacgagtacc 1140  
aggagacaat ggtggagtcc acttttatgt acctgacgct ggaccttct actgcccccc 1200  
tctacaagga cgagaaggag cagctcatca ttccccaagt gccactcttc aacatcctgg 1260  
ctaagttcaa tggcatcact gagaaggaat ataagactta caaggagAAC tttctgaagc 1320  
gottccagct taccaagttg cctccatata taatcttttg tatcaagaga ttcactaaga 1380  
acaacttctt tgttgagaag aatccaacta ttgtcaattt ccctattacg ggacaggcaa 1440  
atgggtatgaa ttacaagacc tccaggtgac tgacatcctt cccagatga tcacactgtc 1500  
agaggcttac attcagattt ggaagaggcg agataatgat gaaaccaacc agcagggggc 1560  
ttgaaggagg cgtctagggc tttgctccca agggctgtgg ctgatgatgg taaataagaa 1620  
cacagaagct gtagctgaac acaggctggc tgggtgggctt cctaggccag ccagcttgt 1680  
atgggttctg gctacaccag agcaccaaga gccacttgc ctgggatggc cccacactgt 1740  
cactcagctg ttctttgatc attttttct agattgatgc tctttctcc catgcattga 1800  
gctcccatct agcttcagca gggcagaacc ctctccaga tgtgtgtaac ttatgtcttg 1860  
agtatctggg agtagttgaa gaacagataa ttcttccaa acatcaagcc ttgggattct 1920  
tgagagcaagc agaaagccag taacttcgct ctgttagagg tggaggattt tctatggtt 1980  
ccccccattt cctgatttgt atttttagat ggattaaata gtctcctgtt ttt 2033

009227069462960

<210> 10823  
 <211> 488  
 <212> PRT  
 <213> Homo sapiens

<400> 10823

Met	Ser	Gly	Arg	Ser	Lys	Arg	Glu	Ser	Arg	Gly	Ser	Thr	Arg	Gly	Lys
1				5					10					15	
Arg	Glu	Ser	Glu	Ser	Arg	Gly	Ser	Ser	Gly	Arg	Val	Lys	Arg	Glu	Arg
			20					25					30		
Asp	Arg	Glu	Arg	Glu	Pro	Glu	Ala	Ala	Ser	Ser	Arg	Gly	Ser	Pro	Val
			35				40					45			
Arg	Val	Lys	Arg	Glu	Phe	Glu	Pro	Ala	Ser	Ala	Arg	Glu	Ala	Pro	Ala
	50					55					60				
Ser	Val	Val	Pro	Phe	Val	Arg	Val	Lys	Arg	Glu	Arg	Glu	Val	Asp	Glu
65					70				75					80	
Asp	Ser	Glu	Pro	Glu	Arg	Glu	Val	Arg	Ala	Lys	Asn	Gly	Arg	Val	Asp
				85					90					95	
Ser	Glu	Asp	Arg	Arg	Ser	Arg	His	Cys	Pro	Tyr	Leu	Asp	Thr	Ile	Asn
			100					105					110		
Arg	Ser	Val	Leu	Asp	Phe	Asp	Phe	Glu	Lys	Leu	Cys	Ser	Ile	Ser	Leu
		115				120						125			
Ser	His	Ile	Asn	Ala	Tyr	Ala	Cys	Leu	Val	Cys	Gly	Lys	Tyr	Phe	Gln
	130					135					140				
Gly	Arg	Gly	Leu	Lys	Ser	His	Ala	Tyr	Ile	His	Ser	Val	Gln	Phe	Ser
145					150					155					160
His	His	Val	Phe	Leu	Asn	Leu	His	Thr	Leu	Lys	Phe	Tyr	Cys	Leu	Pro
				165				170						175	
Asp	Asn	Tyr	Glu	Ile	Ile	Asp	Ser	Ser	Leu	Glu	Asp	Ile	Thr	Tyr	Val
			180					185					190		
Leu	Lys	Pro	Thr	Phe	Thr	Lys	Gln	Gln	Ile	Ala	Asn	Leu	Asp	Lys	Gln
		195					200					205			
Ala	Lys	Leu	Ser	Arg	Ala	Tyr	Asp	Gly	Thr	Thr	Tyr	Leu	Pro	Gly	Ile
	210					215					220				
Val	Gly	Leu	Asn	Asn	Ile	Lys	Ala	Asn	Asp	Tyr	Ala	Asn	Ala	Val	Leu
225					230					235					240
Gln	Ala	Leu	Ser	Asn	Val	Pro	Pro	Leu	Arg	Asn	Tyr	Phe	Leu	Glu	Glu
				245					250					255	
Asp	Asn	Tyr	Lys	Asn	Ile	Lys	Arg	Pro	Pro	Gly	Asp	Ile	Met	Phe	Leu
			260					265					270		
Leu	Val	Gln	Arg	Ser	Gly	Glu	Pro	Met	Arg	Lys	Leu	Trp	Asn	Pro	Arg
		275					280					285			
Asn	Phe	Lys	Ala	His	Ala	Ser	Pro	His	Glu	Met	Leu	Gln	Ala	Val	Val
	290					295					300				
Leu	Cys	Ser	Lys	Lys	Thr	Phe	Gln	Ile	Thr	Lys	Gln	Gly	Asp	Gly	Val
305					310					315					320

09629459.072800

Asp Phe Leu Ser Trp Phe Leu Asn Ala Leu His Ser Ala Leu Gly Gly  
325 330 335  
Thr Lys Lys Lys Lys Lys Thr Ile Val Thr Asp Val Phe Gln Gly Ser  
340 345 350  
Met Arg Ile Phe Thr Lys Lys Leu Pro His Pro Asp Leu Pro Ala Glu  
355 360 365  
Glu Lys Glu Gln Leu Leu His Asn Asp Glu Tyr Gln Glu Thr Met Val  
370 375 380  
Glu Ser Thr Phe Met Tyr Leu Thr Leu Asp Leu Pro Thr Ala Pro Leu  
385 390 395 400  
Tyr Lys Asp Glu Lys Glu Gln Leu Ile Ile Pro Gln Val Pro Leu Phe  
405 410 415  
Asn Ile Leu Ala Lys Phe Asn Gly Ile Thr Glu Lys Glu Tyr Lys Thr  
420 425 430  
Tyr Lys Glu Asn Phe Leu Lys Arg Phe Gln Leu Thr Lys Leu Pro Pro  
435 440 445  
Tyr Leu Ile Phe Cys Ile Lys Arg Phe Thr Lys Asn Asn Phe Phe Val  
450 455 460  
Glu Lys Asn Pro Thr Ile Val Asn Phe Pro Ile Thr Gly Gln Ala Asn  
465 470 475 480  
Gly Met Asn Tyr Lys Thr Ser Arg  
485

<210> 10824  
<211> 1445  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (215).. (694)

<400> 10824  
ccgcgttggg gagcagagcc aggcctgggga cccaggcttg gtgtcagcct acggtcctgg 60  
gctcgaggga ggcactaccg gtgtgtcctc agagttcctc gtgaacaccc tgaatgccgg 120  
ctcggggggc ttgtctgtca ccattgatgg cccctccaag gtgcagctgg actgtcggga 180  
gtgtcctgag ggccatgttg tcaattatac tcccatggcc cctggcaact acctcattgc 240  
catcaagtac ggtggccccc agcacatcgt gggcagcccc ttcaaggcca aggtcactgg 300  
tccgaggctg tccgagggcc acagccttca cgaacatcc acggttcttg tggagactgt 360  
gaccaagtcc tcccaagcc ggggctccag ctacagctcc atccccaaat tctcctcaga 420  
tgccagcaag gtggtgactc ggggcccctg gctgtcccag gccttccttg gccagaagaa 480  
ctccttcacc gtggactgca gcaaagcagg caccaacatg atgatggtg gcgtgcacgg 540  
ccccaaagacc ccctgtgagg aggtgtacgt gaagcacatg gggaaccggg tgtacaatgt 600  
cacctacact gtcaaggaga aaggggacta catcctcatt gtcaagtggg gtgacgaaag 660  
tgtccctgga agccccttca aagtcaaggt cccttgaatc ccaaaagtgc ctcccagcc 720  
tcagcccca cctccagcca cacacacatt acacacacac acacacacac acaaatgtgc 780  
cacaccaga cagcacaga atcagacact acaaacacct gccttggggg tgaagtgaag 840



```

gccagcctc cccacccac cgcgcccag gggttggaga accttgtctg tgtcaggaca 900
gtgtccctcc ctgggaatgt gacatgaggg ccgactgggg ccaggctcag gggcagaggc 960
tgggacacaa ggggctggcg agggctgcga ggccaggga ggcctgagtt tctggcgggg 1020
ctgagcagtg ggggagcatt gtgttgtggg tgtctgtgtg tgaggtcacc ctcaaactgc 1080
accgccggcc agataccctc ctgaccccca ggacttggtc tggctctctc ggtggctaca 1140
accccagagt ttttaaggact tggaaaggaa agcacaatca gagaagaaaa cagcccccaa 1200
accagcagga gtggcctggc acatggaccg gcctgagcga tgtgcactcc acccaagcca 1260
ggctcccagg gggcctgatt tctctctcac tgtctctttt tttaaaatgg ttgcacggct 1320
ctgccccatg gggggccttt tttacacact gcgaggccca gctttctagg ggacttttgc 1380
acatgtcatg cagctcagct gggagctgct taggtggaaa actccaaata aagtgcggct 1440
gtcgc 1445

```

<210> 10825  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens

```

<400> 10825
Met Ala Pro Gly Asn Tyr Leu Ile Ala Ile Lys Tyr Gly Gly Pro Gln
 1          5          10          15
His Ile Val Gly Ser Pro Phe Lys Ala Lys Val Thr Gly Pro Arg Leu
          20          25          30
Ser Gly Gly His Ser Leu His Glu Thr Ser Thr Val Leu Val Glu Thr
          35          40          45
Val Thr Lys Ser Ser Ser Ser Arg Gly Ser Ser Tyr Ser Ser Ile Pro
          50          55          60
Lys Phe Ser Ser Asp Ala Ser Lys Val Val Thr Arg Gly Pro Gly Leu
          65          70          75          80
Ser Gln Ala Phe Val Gly Gln Lys Asn Ser Phe Thr Val Asp Cys Ser
          85          90          95
Lys Ala Gly Thr Asn Met Met Met Val Gly Val His Gly Pro Lys Thr
          100          105          110
Pro Cys Glu Glu Val Tyr Val Lys His Met Gly Asn Arg Val Tyr Asn
          115          120          125
Val Thr Tyr Thr Val Lys Glu Lys Gly Asp Tyr Ile Leu Ile Val Lys
          130          135          140
Trp Gly Asp Glu Ser Val Pro Gly Ser Pro Phe Lys Val Lys Val Pro
          145          150          155          160

```

<210> 10826  
 <211> 1501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS

<222> (220).. (1500)

<400> 10826

```

agaagttagg ggctgcagcg gcgctggcctt taggtgaacg acgtgggtgag gagtggggttt 60
cgggcatgag aagtcacagg gccgtttcct agtctctctt cacttctttg ggtcttctca 120
gagaaagaag gctgccgtgg gtaggctggg ggccggagact atcgggaaga gaaaattact 180
tttcccactg aaacacaccc aagtatatgc ccagccttca tgaaagtgaa cagagaaaacg 240
aagcgccctt atgtgggtgg ccttagccag gacatttctg aggcagacct acaaaatcag 300
ttcagcagat ttggagaagt ttccgatgtg gagatcatca cacggaaaaga tgaccaagga 360
aaccacacaga aagtttttgc atatatcaac atcagtgtag cagaagcggg cctgaaaaaa 420
tgtatatctg ttttaataaa aacaaaatgg aaaggtggaa cattacaaat tcaactagca 480
aaagaaagct ttctgcacag atttgcccaa gagagagaag cagcaaaaagc taagaaagaa 540
gaatcaacaa caggtaacgc caacttggtt gaaaagacag gaggagtgga tttccatatg 600
aaagctgtgc caggacaga agtgccaggg cataagaatt gggttgtgag caaatattgga 660
agagtcttac ctgttcttca ccttaaaaat caacataaac gtaaaatcat caaatatgat 720
ccctcaaagt actgccacaa cctgaagaag atagggggagg atttctcaaa caccattcct 780
atatccagcc tgacttgga attagaagga gggaatgacc ctatgagtaa gaaacggcga 840
ggagagtct ctgactttca tggccctccc aagaagataa taaaagtgca gaaggatgag 900
agtccactg ggtctctggc catgagtaca aggccagga gggtaataga gagaccacc 960
ttaacacagc aacaggctgc aaaaaaaga acttgtgatt ccattactcc ttctaaatca 1020
tctcctgtac ctgtttctga tactcagaaa cttaaaaatc taccttttaa gacttctggc 1080
ttggaaactg ccaagaagag aaacagcatt tctgatgatg atactgattc tgaagatgaa 1140
ttgagaatga tgattgcgaa agaggaaaac ttacagagaa ctacacaacc ctcaataaat 1200
gaatctgaaa gtgatccttt tgaagttgta agggatgatt tcaaatcagg cgttcacaaa 1260
ctgcattctt taataggttt aggtatcaaa aatcgtgtct cttgccatga tagtgatgat 1320
gatattatga gaaatgatcg tgagtatgac tcaggagata cagatgaaat tattgcatg 1380
aaaaaaaaatg ttgctaaggt caaaaacagt acagaatttt cacaaatgga aaaatctacg 1440
aagaaaactt ctttcaaaaa tagagaaaac tgtgagcttt ctgatcactg tattaaacta 1500
c

```

<210> 10827

<211> 427

<212> PRT

<213> Homo sapiens

<400> 10827

```

Met Lys Val Asn Arg Glu Thr Lys Arg Leu Tyr Val Gly Gly Leu Ser
  1             5             10             15
Gln Asp Ile Ser Glu Ala Asp Leu Gln Asn Gln Phe Ser Arg Phe Gly
          20             25             30
Glu Val Ser Asp Val Glu Ile Ile Thr Arg Lys Asp Asp Gln Gly Asn
          35             40             45
Pro Gln Lys Val Phe Ala Tyr Ile Asn Ile Ser Val Ala Glu Ala Asp
          50             55             60
Leu Lys Lys Cys Ile Ser Val Leu Asn Lys Thr Lys Trp Lys Gly Gly
          65             70             75             80
Thr Leu Gln Ile Gln Leu Ala Lys Glu Ser Phe Leu His Arg Leu Ala

```



<213> Homo sapiens

<220>

<221> CDS

<222> (49).. (855)

<400> 10828

```

attaaagttt cctgtagtga aagtcagtta caaagccagt gtggacaaat gaaacagaca 60
aatattaatt tggaaagtag gttgttgaaa gaggaagaac tgcgaaaaga ggaagtccaa 120
actctgcaag ctgaactcgc ttgtagacaa acagaagtta aagcattgag taccaggtta 180
gaagaattaa aagatgagtt agtaactcag agacgtaaac atgcctctag tatcaaggat 240
ctcaccaaac aacttcagca agcacgaaga aaattagatc aggttgagag tggaagctat 300
gacaaagaag tcagcagcat gggaagtcgt tctagtccat cagggtcctt gaatgctcga 360
agcagtgcag aagatcgatc tccagaaaat actgggtcct cagtagctgt ggataacttt 420
ccacaagtag ataaggccat gttgattgag agaattagtt ggctgcacaa agcacatgcc 480
cggaaaaatg aaaagataga atttatggag gaccacatca aacaactggg ggaagaaatt 540
aggaaaaaaa caaaaataat tcaaagttat attttacgag aagaatcagg cacactttct 600
tcagaggcat ctgattttta caaagttcat ttaagtagac ggggtggcat catggcatct 660
ttatatacat cccatccagc tgacaatgga ttaacattgg agctctcttt ggaaatcaac 720
cgaaaattac aggctgtttt ggaggatacg ttactaaaaa atattacttt gaaggaaaat 780
ctacaaacac ttggaacaga aatagaacgt cttattaaac accagcatga actagaacag 840
aggacaaaga aaacctaaaa caagcctctt gtcagtaaa gagacaaaag ccacacagga 900
gtaggtgccg ctgacctcta ttgttggaga ctttgttcca ctttttgttt cagccagtaa 960
aaatattgtt ttgcttcata tgtacacaaa aaaataacct tttacaatat gaatgcattg 1020
ctgtatatac tgtaagactg aaagctttga tgaaatttgt ttttgtatgg tgcaatatga 1080
cagcctgtca ttgaatctaa acaacttaat ttgcttgtat tcataagaag tgttgaacat 1140
tacaagggct tttat                                     1155

```

<210> 10829

<211> 269

<212> PRT

<213> Homo sapiens

<400> 10829

```

Met Lys Gln Thr Asn Ile Asn Leu Glu Ser Arg Leu Leu Lys Glu Glu
  1             5             10             15
Glu Leu Arg Lys Glu Glu Val Gln Thr Leu Gln Ala Glu Leu Ala Cys
          20             25             30
Arg Gln Thr Glu Val Lys Ala Leu Ser Thr Gln Val Glu Glu Leu Lys
          35             40             45
Asp Glu Leu Val Thr Gln Arg Arg Lys His Ala Ser Ser Ile Lys Asp
          50             55             60
Leu Thr Lys Gln Leu Gln Gln Ala Arg Arg Lys Leu Asp Gln Val Glu
          65             70             75             80
Ser Gly Ser Tyr Asp Lys Glu Val Ser Ser Met Gly Ser Arg Ser Ser
          85             90             95
Ser Ser Gly Ser Leu Asn Ala Arg Ser Ser Ala Glu Asp Arg Ser Pro

```

09629459.072300



aagagtga aa ctccatctc

1159

<210> 10831

<211> 1318

<212> DNA

<213> Homo sapiens

<400> 10831

```

ttctaataag gacataaagt aggggacactg gaaagaccaa aagagaatgg aaagtactga 60
catggtagtt gcagggtgct agtgagcagt catgccccca aatcagccac cttacataga 120
actccccaag ttcaggggcca ctggatgggg ttgtgacgca gtcaagcagg gccagaaaag 180
catacaagca gttggtttca tctcctgtaa gaaagtggca tcatccctgc tttgtaaacg 240
gagaacctga cacacaccaa gagcactcct agccgtggaa aaaagccgct agaacccgag 300
gttagtctga tttttggttc ctctgaaaat tagcttttgc tggatgctag attcagttct 360
ggacttactg agtagtctct ggggttttga cattgttagg cactgtggga aaattataac 420
aggtacgtct gcgctgagtt gcttgcta at tctaggaga gacttggaca ttttggacaa 480
ttaagaagca atacaggcca ggcacgggtg ctcacgtctg taatcccagc actttgggag 540
gctgaggcgg gtggctcctc tgaggtcagg agttcgagac cagcctgacc agcatgggtga 600
aaccocatct ctactaaaaa tacaaaatta gccaggcgtg gtggcacatg cctgtaataa 660
tcccagctac tcgggaggct gaggcaggag aattgcttga actggggagg caaaggatgc 720
agtgatccga gatcacgcca ttgcaactcca gcctgggcaa caagagtga atctctgtctc 780
aaaaaaacaa acaaacaaaa agaagcaata cagctctttg agaaagatgc agtcataagt 840
ggtgcagagt tgcagtctgc ccattcctgc tctcactca tcgctgttcc gaacaagtca 900
gccaggaagc cgcactgcac caaggctttt aaagatacca gaaaacacct gtgaagctgg 960
aggtgaccat tcaccaaatt cgaatccctc taatgatccg cagcgtaaaa tccctggaga 1020
aggtgtgtgc tgactggatt cagaggagga aaggaaaaga atgtctaagt gaagggacca 1080
gtttgaatgc ctgccaaagac tttgagaatc actataagaa aatctccttg tgggtgaagg 1140
tcagagacat gggatcgttt ccagatgaga atccacaagc taccactga cttgcacagt 1200
ccttctgaga ttgttaagca gttgacttcc atcagtgttg agccaggaat tgaggtggaa 1260
gtcaccattg cagatgctca aagtcaacta ttttaataaa ctgattagcg gttgttat 1318

```

<210> 10832

<211> 1729

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (276).. (1052)

<400> 10832

```

gcagcgcttg gagcatgagc cgggtggttg cgtgcacgga ggatcgcggg aggctgccgc 60
ctcgggacac ccactcaca cagggcaaaa ggatgtatac actccatctt catttaaaac 120
actggaggat tggaagaggag aaaaggaaca ggacagaaaa aaaaacagag tgttctgaac 180
atcaacacaa agtggagaa ccttaagctg aaggtacagt atattatita cactgaagg 240
gcttgtgtgt ggacaagaaa gcgctgacag ctcaa atgga tcccatggaa ctgagaaatg 300

```

```

tcaacatcga accagatgat gagagcagca gtggagaaag tgctccagat agctacatcg 360
ggataagaaa ttcagaaaag gcagcaatga gcagtcaatt tgctaataa gacactgaaa 420
gtcagaaatt cctgacaaat ggatttttgg ggaaaaagaa gctggcagat tatgctgatg 480
aacaccatcc cggaacgact tccttttgaa tgtcttcatt taacctgagt aatgccatca 540
tgggcagtgg gatcctgggc ttgtcctatg ccatggccaa cacagggatc atacttttta 600
taatcatgct gcttgctgtg gcaatattat cactgtattc agttcacctt ttattaaaaa 660
cagccaagga aggagggtct ttgatttatg aaaaattagg agaaaaggca tttggatggc 720
cgggaaaaat tggagctttt gtttccatta caatgcagaa cattggagca atgtcaagct 780
acctctttat cattaaatat gaactacctg aagtaatcag agcattcatg ggacttgaag 840
aaaatactgg agaattgtac ctcaatggca actacctcat catatttgtg tctgttggaa 900
ttattcttcc actttcgctc cttaaaaatt taggttatct tggctatacc agtggatttt 960
ctcttacctg catggtgttt tttgttagtg tggatgacta caagaaaata agtttctttt 1020
tgcaaatttt tatcatacta aagttgttct tttaatntag catatctaaa ataggaatta 1080
gttcagttta gtcacacag gtgtttgctg acattcattg gccatttaat acagtgttga 1140
gtggttctcc gtaaaagtat aagtgtctaac actacgaaga aatgcacacg atcattcttg 1200
ctcacttcta taacaaactt acataaaatg gatttaaaaa ttctactca cagcctaaaa 1260
cttctggagt tcaactacct tttttcaaat catagtaaga tcaacttgtt attttatatt 1320
ttagtaaaagc caattatgaa gtacaagtat catacacgta cttttgagct actattattt 1380
gaaaaaaatc tgccaaatag catcttttagg atatatttac attttcactc atctaaaaag 1440
tatacaaaaa taaaaagtgg aaaaagggtat cttctgaatg ttcaagagca tcctatagt 1500
ccaaataata aagcaccatt tttttcttca taaccaggat taaaattcat atatactgca 1560
gggcagacat acatatgata gcttgtgctg attaatttaa cccattttgt aaacagatga 1620
aaattttatt ttcttatttc atttataaga tggctcaatg tattgggagg cttctttttt 1680
attacagaaa gtgtatatgt gtatataata aatgaacttt tcaaatgac 1729

```

<210> 10833  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<400> 10833

Met	Asp	Pro	Met	Glu	Leu	Arg	Asn	Val	Asn	Ile	Glu	Pro	Asp	Asp	Glu
1				5				10					15		
Ser	Ser	Ser	Gly	Glu	Ser	Ala	Pro	Asp	Ser	Tyr	Ile	Gly	Ile	Arg	Asn
			20					25					30		
Ser	Glu	Lys	Ala	Ala	Met	Ser	Ser	Gln	Phe	Ala	Asn	Glu	Asp	Thr	Glu
			35					40					45		
Ser	Gln	Lys	Phe	Leu	Thr	Asn	Gly	Phe	Leu	Gly	Lys	Lys	Lys	Leu	Ala
			50				55					60			
Asp	Tyr	Ala	Asp	Glu	His	His	Pro	Gly	Thr	Thr	Ser	Phe	Gly	Met	Ser
			65				70				75				80
Ser	Phe	Asn	Leu	Ser	Asn	Ala	Ile	Met	Gly	Ser	Gly	Ile	Leu	Gly	Leu
			85					90						95	
Ser	Tyr	Ala	Met	Ala	Asn	Thr	Gly	Ile	Ile	Leu	Phe	Ile	Ile	Met	Leu
			100					105					110		
Leu	Ala	Val	Ala	Ile	Leu	Ser	Leu	Tyr	Ser	Val	His	Leu	Leu	Leu	Lys
			115					120						125	

0002240" 69462960

Thr Ala Lys Glu Gly Gly Ser Leu Ile Tyr Glu Lys Leu Gly Glu Lys  
 130 135 140  
 Ala Phe Gly Trp Pro Gly Lys Ile Gly Ala Phe Val Ser Ile Thr Met  
 145 150 155 160  
 Gln Asn Ile Gly Ala Met Ser Ser Tyr Leu Phe Ile Ile Lys Tyr Glu  
 165 170 175  
 Leu Pro Glu Val Ile Arg Ala Phe Met Gly Leu Glu Glu Asn Thr Gly  
 180 185 190  
 Glu Trp Tyr Leu Asn Gly Asn Tyr Leu Ile Ile Phe Val Ser Val Gly  
 195 200 205  
 Ile Ile Leu Pro Leu Ser Leu Leu Lys Asn Leu Gly Tyr Leu Gly Tyr  
 210 215 220  
 Thr Ser Gly Phe Ser Leu Thr Cys Met Val Phe Phe Val Ser Val Val  
 225 230 235 240  
 Ile Tyr Lys Lys Ile Ser Phe Phe Leu Gln Ile Phe Ile Ile Leu Lys  
 245 250 255  
 Leu Phe Phe

<210> 10834  
 <211> 1648  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (234).. (1241)

<400> 10834  
 acgtgggccc gagtcggaga ctgagtttag ctttactgag gagctctaaa tttaggcggg 60  
 tatgagtgat ttcagtgaag aattaaaagg gcctgtgaca gatgatgaag aagtggaaac 120  
 atctgtgctc agtgggtgcag gaatgcattt tccttggcctt caaacatacg tagaaactgt 180  
 ggattatttg gaagctcgga agtgaaattc tattttatca tcccaaaagc aacatggaga 240  
 gtttcaatac ttttgctaac cggatgaaaa atattggcgt catgaattat ttaaagatct 300  
 ccttacaaca tgcattatac cttctgcac atggaatgct taaagatgct aagagaaatc 360  
 tgagtgaggc agagacatgg agacatgggtg aaaatacgtc ttcccgggaa atattaatca 420  
 acctatttca ggcctataaa gggctttttac agtattatac ctggtctgaa aagaagatgg 480  
 aattgtcaaa gcttgataag gatgattatg cttacaatgc agtagcccag gatgtgttca 540  
 accacagctg gaagacatct gcaaataatt ctgcattgat taaaattcct ggagtttggg 600  
 acccttttgt gaagagttat gtagaaatgc tgggaattcta tggggatcga gatggagccc 660  
 aagaggtact caccaattat gcatatgatg aaaagtttcc atcaaatcca aatgcccata 720  
 tctacttata caactttcta aagagacaga aggcaccaag atcaaaattg ataagtgtgc 780  
 ttaagatttt gtatcagatt gtaccatctc ataaattgat gttggaattc catacattac 840  
 ttagaaaatc agaaaaagaa gaacaccgta aactgggggtt ggagggtatta tttggagtct 900  
 tagattttgc cggatgcact aagaatataa ctgcttggaa ataacttggca aaatatctga 960  
 aaaatatctt aatgggaaac caccttgcgt gggttcaaga agagtggaaac tccaggaaaa 1020  
 actggtggcc aggctttcat ttcagctact tttgggcaaa aagtgtattg aaggaagata 1080

09629469.072800



cagctttggc ctgtgagaaa gcttttgtgg ctggtttact gttaggaaaa ggttgtagat 1140  
 atttccggtg tatttttaaag caagatcacc aaatcttagg gaagaaaatt aagcggatga 1200  
 agagatctgt gaaaaaatac agtattgtaa atccaagact ctgatactga attttagtta 1260  
 tttcacagtt gtagctacac agtataccac catgaagaaa tatattgggtg atgagttcta 1320  
 ttgaggaatt ttgaaaagag agaaggattt agaaaaaaga ctctttctcg gccgggcgca 1380  
 gtggctcaca cttctaattcc cagcacttgg gaggcggagg tgggtggatc atgaggtcag 1440  
 gagttcaaga ccagcctggc caacacagtg aaaccctgtc tctactaaaa atacaaaaag 1500  
 tagctgggcg cagtggcggg catttgtaat cccagatact cgggaggctg aagcaggaga 1560  
 attgcttgaa cccgggaggt ggaggttgca gtgagcagag attgcaccac cgtactcctg 1620  
 cctgggcgac agaactagac tctgtctc 1648

<210> 10835  
 <211> 336  
 <212> PRT  
 <213> Homo sapiens

<400> 10835  
 Met Glu Ser Phe Asn Thr Phe Ala Asn Arg Met Lys Asn Ile Gly Val  
 1 5 10 15  
 Met Asn Tyr Leu Lys Ile Ser Leu Gln His Ala Leu Tyr Leu Leu His  
 20 25 30  
 His Gly Met Leu Lys Asp Ala Lys Arg Asn Leu Ser Glu Ala Glu Thr  
 35 40 45  
 Trp Arg His Gly Glu Asn Thr Ser Ser Arg Glu Ile Leu Ile Asn Leu  
 50 55 60  
 Ile Gln Ala Tyr Lys Gly Leu Leu Gln Tyr Tyr Thr Trp Ser Glu Lys  
 65 70 75 80  
 Lys Met Glu Leu Ser Lys Leu Asp Lys Asp Asp Tyr Ala Tyr Asn Ala  
 85 90 95  
 Val Ala Gln Asp Val Phe Asn His Ser Trp Lys Thr Ser Ala Asn Ile  
 100 105 110  
 Ser Ala Leu Ile Lys Ile Pro Gly Val Trp Asp Pro Phe Val Lys Ser  
 115 120 125  
 Tyr Val Glu Met Leu Glu Phe Tyr Gly Asp Arg Asp Gly Ala Gln Glu  
 130 135 140  
 Val Leu Thr Asn Tyr Ala Tyr Asp Glu Lys Phe Pro Ser Asn Pro Asn  
 145 150 155 160  
 Ala His Ile Tyr Leu Tyr Asn Phe Leu Lys Arg Gln Lys Ala Pro Arg  
 165 170 175  
 Ser Lys Leu Ile Ser Val Leu Lys Ile Leu Tyr Gln Ile Val Pro Ser  
 180 185 190  
 His Lys Leu Met Leu Glu Phe His Thr Leu Leu Arg Lys Ser Glu Lys  
 195 200 205  
 Glu Glu His Arg Lys Leu Gly Leu Glu Val Leu Phe Gly Val Leu Asp  
 210 215 220  
 Phe Ala Gly Cys Thr Lys Asn Ile Thr Ala Trp Lys Tyr Leu Ala Lys  
 225 230 235 240

09629469.07300

Tyr Leu Lys Asn Ile Leu Met Gly Asn His Leu Ala Trp Val Gln Glu  
245 250 255  
Glu Trp Asn Ser Arg Lys Asn Trp Trp Pro Gly Phe His Phe Ser Tyr  
260 265 270  
Phe Trp Ala Lys Ser Asp Trp Lys Glu Asp Thr Ala Leu Ala Cys Glu  
275 280 285  
Lys Ala Phe Val Ala Gly Leu Leu Leu Gly Lys Gly Cys Arg Tyr Phe  
290 295 300  
Arg Tyr Ile Leu Lys Gln Asp His Gln Ile Leu Gly Lys Lys Ile Lys  
305 310 315 320  
Arg Met Lys Arg Ser Val Lys Lys Tyr Ser Ile Val Asn Pro Arg Leu  
325 330 335

<210> 10836  
<211> 2222  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (57).. (494)

<400> 10836  
gtagagtgcg cgacgctttt ggcgaccoga cctctggcta acctaccccc ggagccatgg 60  
cctctgctgg ggtggcagcc gggcgacagg cggaggatgt attgccgcca acgtccgacc 120  
agccgctgcc tgacaccaag ccgctgcgcg ctccctcagcc gccgccggtc cctgcgcctc 180  
aaccgcagca gtccgccggcg ccacggcctc agtcacctgc ccgcgcgagg gaggaagaga 240  
actactcctt ttacctttt gttcacaaca tcatcaaagt catggacaag gacagcccag 300  
aggtccacca ggacctgaac gccctcaaaa gcaagttcca ggagatgcgc aagctcatca 360  
gcaccatgcc cggcatccac ctgagccccg aacagcagca gcagcagctg cagagcctcc 420  
gggagcaagt caggaccaag aatgagcttc tgcaaaagta caagagcctc tgcattgttcg 480  
aaatcccca ggagtagagt gaggctgact tcttagaaa gagggggaag ccaatggcct 540  
gtctccccc taccatcccc aaacgctcct tggggcgtgg ttctgttga cccagctca 600  
gctcgtcaag ctgcaggggc ggggctcctg tgctgttgog cgcgcttcgc ctgtgcggga 660  
gccagcgag agcttggtg cgccgggggt tctcgtgta gatccatag tctagatgca 720  
taataactgg agtgctgct ggtggaagtc agaattgctc tggaggctgc agagggggtg 780  
gaggactctc cctgcctct ggggaggggg ccattctgtg cgcgcggccc cactgacaga 840  
tctgaagagc acagtaggaa gggaggcggc tctctttgc ttcttccct ctctctctc 900  
ccaccccat aggatcagtg tgtaccaggt acacattgtt cctgttaaca gcagcttctt 960  
gaaacatttg catagaattc actggacgaa ttaagcctgc actcatatgg catagaattg 1020  
tgagagaatg ttttgaaagg ccagagggtg gcctttttcc ccaaacagtt tggttccttt 1080  
tatgtttgag ccagtgaagg gaactacgct ttggggggtt cagcctagag cctgccagg 1140  
cagccctggt ctccaggct cctgcctcct agcgtctcc tcgccttcag ctcttgctcc 1200  
cttctcgtt catcacctc agtcagtgc caagagtggc caaacgctt cacatctgca 1260  
gtgcttcccc agggttgaca aggggcccgt ctttcacac aggccagaag aggtcttcag 1320  
gcgaaccgac ctccccctt ctggcatttc agattccct tgccttggtt aaaaggtctt 1380  
tccctcgtgg ctttgcact tgcggcagca acgtgtacta cactgcagaa gggttcagta 1440

09629469.072900

```

tgcaccttgt gttgagagag aggcaaccct gggggccagt tcaggtggtc cccaaccata 1500
ggctaggtct gaaagttaca cagccaagtt tgagctctta aaagttgatg aacagcctca 1560
tttccccagc ttccctgatt tcttccagat gggacgtttt atttgtgtgc tctcccttga 1620
ctgtcagatt gaagtaagag cagttctctc cgttgcctct cgaggaggag gtgcgaagtc 1680
ctggagtatt gtttgggtct cggaatgggc gcataacctg cgctgaccag tttaggggct 1740
tagcagatgc ctgccagctg acctcgttgg caggagggtt ggggtggagat gtttttagca 1800
gagcttccat tagtgtagac ctgtagccac ctgtcagaag gtgggtggca tattggggac 1860
ctgggaatgt gtgaaggagg agatcaaatt tcagtggctt tggacagaaa agaaggctct 1920
ggatttaagc ggggtggtcac ctgtgagacc aggtctacct tgggactggt atttaactga 1980
atcagttatt tccttgaaat ttcacagtag tgggtgggcc tgttttaagg ctctgacaga 2040
taccacgaaa catgaagcac gtggaactac aagacccccg gggctcttct gagtgcagg 2100
ctgaaatgga caagggtcc tcacgggggt ggaggaggcc ggagcctgcc ttgtgttct 2160
ttttgactt gtgacatttt tcaaacacat aattaaagg acttatgtc tgctgtctca 2220
gg

```

<210> 10837  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 10837

Met	Ala	Ser	Ala	Gly	Val	Ala	Ala	Gly	Arg	Gln	Ala	Glu	Asp	Val	Leu
1				5					10					15	
Pro	Pro	Thr	Ser	Asp	Gln	Pro	Leu	Pro	Asp	Thr	Lys	Pro	Leu	Pro	Pro
			20					25					30		
Pro	Gln	Pro	Pro	Pro	Val	Pro	Ala	Pro	Gln	Pro	Gln	Gln	Ser	Pro	Ala
			35				40					45			
Pro	Arg	Pro	Gln	Ser	Pro	Ala	Arg	Ala	Arg	Glu	Glu	Glu	Asn	Tyr	Ser
	50					55				60					
Phe	Leu	Pro	Leu	Val	His	Asn	Ile	Ile	Lys	Cys	Met	Asp	Lys	Asp	Ser
65					70				75					80	
Pro	Glu	Val	His	Gln	Asp	Leu	Asn	Ala	Leu	Lys	Ser	Lys	Phe	Gln	Glu
				85				90					95		
Met	Arg	Lys	Leu	Ile	Ser	Thr	Met	Pro	Gly	Ile	His	Leu	Ser	Pro	Glu
			100					105					110		
Gln	Gln	Gln	Gln	Gln	Leu	Gln	Ser	Leu	Arg	Glu	Gln	Val	Arg	Thr	Lys
			115				120					125			
Asn	Glu	Leu	Leu	Gln	Lys	Tyr	Lys	Ser	Leu	Cys	Met	Phe	Glu	Ile	Pro
	130					135					140				
Lys	Glu														
145															

<210> 10838  
 <211> 1346  
 <212> DNA  
 <213> Homo sapiens

009270.63462960

<220>  
<221> CDS  
<222> (367).. (732)

<400> 10838

```

aaaaaaaaa aaaaaacaat aatgagctct gaaattaaat cagtaataaa taacctacca 60
actaaaaaag cacaggacca aatgaattca cagccaaatt ctaccagatg tacaaagaag 120
agctggtagc atccttactg aaactatccc aaaaagctga gaaggaggga ctctcccca 180
actcattcta tgaggcaagc aacatattta taccaaaacc tggcagagct cacaaaaaaa 240
gaaaacatca gactaatatt cttgatgaac attgatgcca aatttctaaa ctaaatagtg 300
agaaaccaa ttcagcagca cataaaaaag ctaatccacc gtgatcaaat aggctttctc 360
cctgggatgc aagtttggtt ctacatatgc aaatcaataa atgtgattca tcatacaaac 420
agaaataaag ataaaaatca cctgattatc tcaatagatg caggaaagtc ttttgataaa 480
actcaacatc gcttcatggt aaaaatgctc aataaactaa gtattgaagc aacgtacctc 540
aaaataataa gagccatctg tgaaaaatcc agagccgata tcatactgaa tgggcaaaag 600
ctggaagcat atcccttgaa aaccagcaga tggcaaggat gccctctctc aacactccta 660
tttagcatag tagtggaagt cctggacaga gcaatcaggc aagagaaaga aataaagggc 720
atccaaatag gatgagaggg agtcaaacta tccctgtttg cagacagcat gattttatat 780
ctagaaaacc cccatagcac gtcccaaaag ctccctgtgc tgataaaaaa aaacttttagc 840
gaagtttcag aatacaaaat caacataaaa aaatctctag cattcctatc taccaacaac 900
agtcaagctg agagtcaaac caggaacaca atcccattca caattgccac aaaagaataa 960
aatacctagc aatacagcta accagggagg tgaaagatct ttacaatgag aattgcaaaa 1020
cactgttcaa agaaatcaga ggtgacacaa acaaatggaa aactattcca tgctcatgga 1080
aaggaagaat cagtatcatt acaatggcca tactgccaaa gcaatttaca gattcaatgt 1140
tattcctacc aaactaccaa cgacattctt cacaaaacta gaaatcagga tcctagaaac 1200
taggatcaga acaataaact attgggtacc aggcttagta cctgggtgac aaaatatctg 1260
tataacaaac ctctgtgaca caagtttaca tatataacaa acttgcattt gcaccctgta 1320
acctaaaata aaagtttaaa aaaatt                                     1346

```

<210> 10839  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 10839

```

Met Gln Val Trp Phe Tyr Ile Cys Lys Ser Ile Asn Val Ile His His
  1             5             10             15
Thr Asn Arg Asn Lys Asp Lys Asn His Leu Ile Ile Ser Ile Asp Ala
             20             25             30
Gly Lys Ser Phe Asp Lys Thr Gln His Arg Phe Met Leu Lys Met Leu
             35             40             45
Asn Lys Leu Ser Ile Glu Ala Thr Tyr Leu Lys Ile Ile Arg Ala Ile
             50             55             60
Cys Glu Lys Ser Arg Ala Asp Ile Ile Leu Asn Gly Gln Lys Leu Glu
             65             70             75             80
Ala Tyr Pro Leu Lys Thr Ser Arg Trp Gln Gly Cys Pro Leu Ser Thr

```

09529459.0.2300

-4310/13211-

85 90 95  
Leu Leu Phe Ser Ile Val Val Glu Val Leu Asp Arg Ala Ile Arg Gln  
100 105 110  
Glu Lys Glu Ile Lys Gly Ile Gln Ile Gly  
115 120

<210> 10840  
<211> 1424  
<212> DNA  
<213> Homo sapiens

<400> 10840  
tagtgtagac ggaagctcct ttggtgccag attataaagg tagaaatttg tggaggacat 60  
cgaggagaca gaagacatgc ttatatacatg tttcttttta ttttaaaaag ctttgaaata 120  
catttgaatg aaaaactaag cagttgctta tgctgtcagt acctgtctct gctctttaa 180  
aagtaagcca ctgcctctta cctaaaggct agcatgggct ccatcataca gcggtcaggt 240  
ccatcataca gcggtcaggt ccatcataca gcggtcaggt ccatcatacg gcggtcaggt 300  
ccatcataca gcggtcaggt ccatcatacg gcggtcaggt ccatcataca gcggtcaggt 360  
ccatcatacg gtggtcaggt ccatcatacg gcggtcaggt ccatcatacg gcggtcaggt 420  
ccatcatacg gcggtcaggt ctgtaactct tgacaggaag gtgcagtagc agaatggcga 480  
gatgcactga gggtaaccag atgatctcat gggacttacc cagtgttagc accaaagtcc 540  
catgaactga ggtgttaaaa cagaaaggcc tgtgtcctca gaaccctcc aagtcactgg 600  
ccaactatga ctcatgtttg gtgatgttgg atgccagtta ataaagtcca gaacttaagc 660  
ccaagaagag agctcagaag tgtttgtgtt actctttatt tattgaggaa taatttacag 720  
atagtaaaat ttacccttta tatctgtaca gttttgtgaa ttatgacaaa cttactcagg 780  
ttgtgtaacc accagtgcag tcaaggcata gattatttcc atccttccag agaagtctct 840  
gggacctttt gtagtcagtc ccctcatgga atgttttgat caacgtagaa atgcctggag 900  
gctgctgggt gggaggctga ccaactcagcc atcagagcgt cctgtgtctc tgagccgtgc 960  
acccattgtt ggcattggcac tggttgctgg acattcttct gggggccac tcacacatct 1020  
gcctgcctgc ggcctgtctg tgtttgtctt actcatgtct ttggagccgt agcgaatgtg 1080  
tctaataatc cttccacgtg gtagattgaa acttcaccaa aatagccctg tgcgcctact 1140  
ttgtctctga acatctctga tttctccggc tgtccctgtg tggagttctg gcagatctca 1200  
ccagtctaca tgacctattg gaaatgccag tgggtcattg tggcattcag acacataatt 1260  
caaaactgca aatggtggga ccgcactaaa gaatttttag taattaaagt acaggaggct 1320  
gaggtgggag gatcacttca gccagaggag tcaggccaag gctgcagtga gccatggtt 1380  
caccactaca ctgtagcctg ggtgacaaag tgagaccctg tctc 1424

<210> 10841  
<211> 1631  
<212> DNA  
<213> Homo sapiens

<400> 10841  
atttactaat gaggcagttt gcaaagactg tccctgaagt gtagttagt ctttcagggg 60  
gattcattta gtaagctaga ttgatttaac ctgggtactgt actagcatag ggtcaaatac 120  
gtgtcatcag agacctgggt atgaccagga ttacaaaact caggaacaaa ctcagattcc 180

09629469.072300

```
tactgacctc aaccaactaa actaggccaa atttctccgt gtacaaaatg gaccacgtta 240
tttacaatcc acgtggtgga gaagatggta gacatgtgga gagagtttgg ccagggtgctc 300
cattctaggt ctttttccag tttctcaaag gcagaacatt ggctcctaata ttttggccat 360
ggatatttgc ttctgtttct ggagctatgt tgtaagacag ctgtgtgatg tccatcattc 420
ttgactccag aatgaagaca gggcttgcgt tttctgtcc tgttgggtatc atctgttgcc 480
ttggcgatca ctcagtgatg agtcgtcagt attttgacat gtcccagtgct ttgctgtaca 540
agagggggact cagatcaaca ggaagactct gaagacagga acctgcatgg tatcttacat 600
ctttgatact tgggtgctga tatgaagcag agttgttgat ttactttatc taggcccttc 660
tttcatctca cctggatcaa gcaactgaga agtgtatcag gagacactgg atacatatct 720
ctatgaaata gagagggcca tcgcagggcc tgggtactta ctacattaac gttctaaaac 780
ccagtttggg ttacgttgtc tttcacagta gtatatttag ctcttctctg gaaagtgtgtg 840
ggttaatata attcttaaac atgaaaatgt aattaaacac accacgagag aacaatattc 900
caggagactt aatagtgatt actttcttca atcaggaaat cgtttcagtg cctcctttgt 960
aggaatgctt tgttttgtga tgggttttct taaagaagag cacacctccg tccaatctcc 1020
tgagacagcc acgtctccgc tgacatccca ctgtgatgct ttcagatagt cagtgaatgt 1080
ttctgataac ctcatccag tatctgaaac acaatgtgag agattatatt gttttagata 1140
ataacatccc atttagttga ctaaaatctt ccaaactctg aaagctgcac actgctactc 1200
cagagagtgct aggtcttagc tcttctcctt tctgacttca agatgaatct ttgggacgat 1260
gtttctgggtg cttggtccac agtgattcac ttttgaagga gaggccacat gacatgaact 1320
gcctgggtgtt acaacctagc taacatattt gatgctactc ctgttgtctg tactgcttat 1380
tcaagtagta ttctaagtta tgttactaaa aaacatgggtg ggtaaagcac aatcctaccc 1440
atcattgtcc tccaaaataa ttgtatgaca tacacggccc agccattgc cctccctgca 1500
tctctgtgct gctttgccat ttccccttct acccagcctc ctcaaggggt accttggtgg 1560
atatttcagt acttaaaacc agactgtaat cataacctcc ctctgtgtgg catcaataaa 1620
tagccaaact c 1631
```

<210> 10842  
<211> 1540  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (539)..(1540)

```
<400> 10842
gatacataca cctgcaaagg ttcagctttc cctatacaca ttttgtctg ctgaatttat 60
tggaactgct accatctaca ccaccatacg cagagtagga acagtattac agctaattgca 120
caccttaaaa tattactact gggttattaa tctgtctgac agtagtggca ttacacctaa 180
aggattagat ggtccccggc catcacaaaa agaaattata tcaactgaggg catttatgct 240
actttttctg aaacagctga tactaaagga tcgaggggtc aaggaagatg aacttcagag 300
tatattaaat tacctactta cgatgcatga ggatgaaaat attcatgatg tgctacagtt 360
actggtgggt ttaatgtcgg aacacccagc ctcaatgata ccagcatttg atcaaagaaa 420
tggaataagg gtgatctaca aattattggc ttctaaaagt gaaagtattt gagttcaagc 480
tttgaagggt ctgggatact ttctgaagca tttaggtcac aagagaaaag ttgaaattat 540
gcacacccat agtcctttca ctcttcttgg agaaaggctg atgttgcata caaacactgt 600
gactgtcacc acatacaaca cactttatga gatcttgaca gaacaagtat gtactcaggt 660
```

```

cgtacacaaa ccacatccag agccagattc tacagtgaag attcagaatc caatgattct 720
taaagtgggtg gcaactttgt taaaaaactc tacaccaagt gcagagctga tggaagttcg 780
tcgtttatit ttatctgata tgataaaact tttcagtaac agccgtgaaa atagaagatg 840
cttattgcag tgttcagtggt ggcaggattg gatgttttct cttggctata tcaatcctaa 900
aaattctgag gaacagaaga ttaccgaaat ggtctacaat atcttccgga ttcttttgta 960
tcatgcaata aaatatgaat ggggaggctg gagagtctgg gtggataccc tctcaatagc 1020
ccattccaag gtcacttatg aagctcataa ggaataccta gccaaaatgt atgaggaata 1080
tcaaagacaa gaggaggaaa acattaaaaa gggaaagaaa gggaatgtga gcaccatctc 1140
tggtctttca tcacagacaa caggagcaaa aggtggaatg gaaattcgag agatagaaga 1200
tctttcacaa agccagagcc cagaaagtga gaccgattac cctgtcagca cagatactcg 1260
agacttactc atgtcaacaa aagtgtcaga tgatattctt ggaaattcag atagaccagg 1320
aagtgggtga catgtggaag tacatgatct tttagtagat ataaaagcag agaaagtgga 1380
agcaacagaa gtaaagctcg atgatatgga tttatcaccg gagactttag taggtggaga 1440
gaatgggtgcc cttgtggagg ttgaatctct gttggataat gtatatagtg ctgctgttga 1500
gaaactccag aacaatgtac atggaagtgt tggtatcatt 1540

```

<210> 10843  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<400> 10843

Met	His	Thr	His	Ser	Leu	Phe	Thr	Leu	Leu	Gly	Glu	Arg	Leu	Met	Leu
1				5					10					15	
His	Thr	Asn	Thr	Val	Thr	Val	Thr	Thr	Tyr	Asn	Thr	Leu	Tyr	Glu	Ile
			20					25					30		
Leu	Thr	Glu	Gln	Val	Cys	Thr	Gln	Val	Val	His	Lys	Pro	His	Pro	Glu
		35					40					45			
Pro	Asp	Ser	Thr	Val	Lys	Ile	Gln	Asn	Pro	Met	Ile	Leu	Lys	Val	Val
	50					55					60				
Ala	Thr	Leu	Leu	Lys	Asn	Ser	Thr	Pro	Ser	Ala	Glu	Leu	Met	Glu	Val
65					70					75				80	
Arg	Arg	Leu	Phe	Leu	Ser	Asp	Met	Ile	Lys	Leu	Phe	Ser	Asn	Ser	Arg
				85					90					95	
Glu	Asn	Arg	Arg	Cys	Leu	Leu	Gln	Cys	Ser	Val	Trp	Gln	Asp	Trp	Met
			100					105					110		
Phe	Ser	Leu	Gly	Tyr	Ile	Asn	Pro	Lys	Asn	Ser	Glu	Glu	Gln	Lys	Ile
	115						120						125		
Thr	Glu	Met	Val	Tyr	Asn	Ile	Phe	Arg	Ile	Leu	Leu	Tyr	His	Ala	Ile
	130					135					140				
Lys	Tyr	Glu	Trp	Gly	Gly	Trp	Arg	Val	Trp	Val	Asp	Thr	Leu	Ser	Ile
145					150					155				160	
Ala	His	Ser	Lys	Val	Thr	Tyr	Glu	Ala	His	Lys	Glu	Tyr	Leu	Ala	Lys
			165					170						175	
Met	Tyr	Glu	Glu	Tyr	Gln	Arg	Gln	Glu	Glu	Glu	Asn	Ile	Lys	Lys	Gly
		180					185					190			
Lys	Lys	Gly	Asn	Val	Ser	Thr	Ile	Ser	Gly	Leu	Ser	Ser	Gln	Thr	Thr

09629469.072300

<210> 10844  
 <211> 1432  
 <212> DNA  
 <213> Homo sapiens

<400>	10844						
catttcactt	accatttcag	gcaaagttgg	ctaagaacat	gaggctgttt	ctgatatttc	60	
cttttatttt	tatgtattaa	tgagaataat	aggtataggc	catatactta	ttagagactc	120	
tcaatgactt	atacttatta	ttctcaattc	atattatata	atattatact	cattgaaaat	180	
aagccatata	cttattagag	acttattttg	agtcttatta	gagacttatt	aagagtctct	240	
aataagtata	tgggttgtca	agctagacac	aaaatagtac	catctctctc	cacctctcta	300	
aagaggacca	catcatctcc	aaatgtaaat	agacaagaac	aaaaaaaaat	gtgcattttac	360	
taggcaattg	aatgttctcc	aaaccaatat	tcctttgaac	aaaatgagtt	tgtttgattt	420	
gagaacaatg	aagtatttgg	ctattttata	atcataagtg	attcataccc	ccacacactt	480	
agccctctag	aaatgggtgcc	agaagatgaa	acacatttaa	ttttgccata	tagaagcatt	540	
gcaaataaact	actggtttct	aataatgtac	cttataatgc	aaataatgtt	ttaattttta	600	
aaaatatcag	aaaaagtaca	accttttaaa	ttatgtagtt	gcttcttctt	cataatcatt	660	
tttcttgaac	tggtgaaaaa	ttttgtcaga	agttaccact	tgggacatat	tgtaactacag	720	
cttctcgctt	ggctggagaa	actggttttc	cagaagcaga	ccttatacaa	gaggtaaattg	780	
aaccattaga	cttctcccat	gaaatcaacc	cagaaaaata	aattaggact	attttgtaga	840	
ggaacagaca	gaatgctaga	ggctcagttg	cctttatcat	ttatgtctgg	ctctgcagca	900	
gcaggggtgt	gaggtgctcc	tcattcagag	tttcgaatgc	accaaaaggg	tgtttccaaa	960	
acatgatatg	ggaaggaggc	tgtgcacaga	gtatgaccac	tggattgcct	aaattgacat	1020	
tgggtaggag	tggagtatgg	gtgatcttca	gatgaagcaa	gagtaatgct	caatgtgacc	1080	
tggttaaaca	agtctcctga	atccaggggt	taaagatgga	gaggaggaag	agaggggagtc	1140	
aagaaggtca	aagggagcgt	ctgtctccct	gacctgaatg	acaactaaca	tagcccttgt	1200	
ttccttcttg	gtccccagga	gggagagaga	ggcagctgtg	tgggatcaag	gcattttgtg	1260	
agattgcagc	tgtgattcat	tttcctttgg	aagaacatcc	ctagctccag	gggatattggt	1320	
gggaatttgt	tagctaaaat	atcaattccc	tgggtaaaag	aggaaaacca	tgagaccctc	1380	



taatcttaac ttttctcctt caaaagagtg gaaaaagatt acatagttcc tc 1432

<210> 10845  
<211> 1233  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (52).. (1032)

<400> 10845  
atccgctatt gtgcatataa tattggggac cagtcagcca tcaatgaact catgcagatg 60  
agattgaggt ctggggggcac tgagggtctc ttggctgaaa aattggaggc tttgatcact 120  
cagactcgag ccaaacaggc agctaccatg agtgaagtgg agtggagagg gagaacggtt 180  
ccagtgaaga ttgacaaagt gcgcattttc ttattaggac tggctgataa cgaagcagct 240  
attgtccagg ctgaaagcga agaaactaag gagcgccgtt ttgaatcaat gctcagcgag 300  
tgtcgggacg ccattccagg gtgtcgggag gagctcaagc cagatcagaa acagagagat 360  
tatatccttg aaggagagcc aggggaagggtg tctaattctt aatacttgca tagctacctg 420  
acttacatca agctatcaac ggcaatcaag cgtaatgaga acatggccaa aggtctgcag 480  
agggctctgc tgcagcagca gccagaggat gacagcaagc gctcaccocg gccccaggac 540  
ctgatccgac tctatgacat catcttacag aatctggtgg aattgctcca gcttcttggt 600  
ttagaggaag acaaagcctt ccagaaagag ataggcctca agactctggt gttcaaagct 660  
tacaggtgtt ttttcattgc tcagtcctat gtgctggtga agaagtggag cgaagccctt 720  
gtcctgtatg acagagtcct gaaatatgca aatgaagtaa attctgatgc tggcgccttc 780  
aagaacagcc taaaggacct gcctgatgtg caagagctca tcaactcaagt gcggtcagag 840  
aagtgtccc tgcaggccgc agccatcctt gatgcaaacg acgctcatca aacagagacc 900  
tcctcctccc aagtcaagga caataagcct ctggttgaac gggttgagtc cacaccaggc 960  
acagatgggg ccttgaaacg ctttgtcatg cttcttcagt accatggatt tgaaatgaac 1020  
tcctccttgc tgtgagcatc caggagccct tgagaagttt atctatgact atgaaactgg 1080  
caacgtcacc ccagaattac ggtcagcctt attccccttc acctccagat gaacgcgaag 1140  
tttcagacaa gcagagagct ctatttttag aagaaatatg ttacactcag aaatgatgaa 1200  
accaaattct atattaaaag gcaaagatga cgg 1233

<210> 10846  
<211> 327  
<212> PRT  
<213> Homo sapiens

<400> 10846  
Met Gln Met Arg Leu Arg Ser Gly Gly Thr Glu Gly Leu Leu Ala Glu  
1 5 10 15  
Lys Leu Glu Ala Leu Ile Thr Gln Thr Arg Ala Lys Gln Ala Ala Thr  
20 25 30  
Met Ser Glu Val Glu Trp Arg Gly Arg Thr Val Pro Val Lys Ile Asp  
35 40 45

09629459.02300

-4315/13211-

```

Lys Val Arg Ile Phe Leu Leu Gly Leu Ala Asp Asn Glu Ala Ala Ile
  50          55          60
Val Gln Ala Glu Ser Glu Glu Thr Lys Glu Arg Leu Phe Glu Ser Met
  65          70          75          80
Leu Ser Glu Cys Arg Asp Ala Ile Gln Val Val Arg Glu Glu Leu Lys
          85          90          95
Pro Asp Gln Lys Gln Arg Asp Tyr Ile Leu Glu Gly Glu Pro Gly Lys
          100          105          110
Val Ser Asn Leu Gln Tyr Leu His Ser Tyr Leu Thr Tyr Ile Lys Leu
          115          120          125
Ser Thr Ala Ile Lys Arg Asn Glu Asn Met Ala Lys Gly Leu Gln Arg
          130          135          140
Ala Leu Leu Gln Gln Gln Pro Glu Asp Asp Ser Lys Arg Ser Pro Arg
          145          150          155          160
Pro Gln Asp Leu Ile Arg Leu Tyr Asp Ile Ile Leu Gln Asn Leu Val
          165          170          175
Glu Leu Leu Gln Leu Pro Gly Leu Glu Asp Lys Ala Phe Gln Lys
          180          185          190
Glu Ile Gly Leu Lys Thr Leu Val Phe Lys Ala Tyr Arg Cys Phe Phe
          195          200          205
Ile Ala Gln Ser Tyr Val Leu Val Lys Lys Trp Ser Glu Ala Leu Val
          210          215          220
Leu Tyr Asp Arg Val Leu Lys Tyr Ala Asn Glu Val Asn Ser Asp Ala
          225          230          235          240
Gly Ala Phe Lys Asn Ser Leu Lys Asp Leu Pro Asp Val Gln Glu Leu
          245          250          255
Ile Thr Gln Val Arg Ser Glu Lys Cys Ser Leu Gln Ala Ala Ala Ile
          260          265          270
Leu Asp Ala Asn Asp Ala His Gln Thr Glu Thr Ser Ser Ser Gln Val
          275          280          285
Lys Asp Asn Lys Pro Leu Val Glu Arg Phe Glu Ser Thr Pro Gly Thr
          290          295          300
Asp Gly Ala Leu Lys Arg Phe Val Met Leu Leu Gln Tyr His Gly Phe
          305          310          315          320
Glu Met Asn Ser Ser Leu Leu
          325

```

<210> 10847  
 <211> 1809  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (416).. (1174)

<400> 10847

09629469.072300

09629459.072300

```

acgccggcgc tcccaggccg cgcttcctgc gtccccaacc cggctccctga gagggcactg 60
cgccctctcc accactgcgt tccctcggct aagaatcccc cgaaccccag ccccgcatc 120
gcggcgccca ccgaggaggc cgcccggtg gggcggggg gtcgcgaagc ccgcagcccc 180
ggaccgcccc gccgagacgg agccggaccc gccgcctccc gggcccttcc accgcagcta 240
tccgcacggg aggcctcgcg attgctcgga accatccgcg aggagttcag ctgatatttt 300
ctagtgtggg gcgagagatt ttgtggagcg catttaaggg gtttttgttg tgactgctgc 360
cttgtatata tttattttct ttcttggaac tgggcctcgc cctcctccca ctgacatgat 420
ggccccagtcc aaggccaatg gctcgcacta tgcgctgacc gccatcggcc tggggatgct 480
ggtccttggg gtgatcatgg ccatgtggaa cctggtaccc ggcttcagcg cggccgagaa 540
gccaacagct cagggcagca acaagaccga ggtgggtggc ggcatcctca agagcaagac 600
cttctctgtg gcctacgtgc tggctcggggc cggggtgatg ctgctgctgc ttctatctg 660
cctgagtatc agggataaga ggaagcagcg gcaggcgag gacctggccc atgtccagca 720
ccgcacaggc gctgggcctc acgcccagga ggaagacagc caggaggaag aagaggagga 780
tgaggaggct gcctcaagggt actatgttcc cagctacgag gaagtgatga acacaaacta 840
ctcagaagca aggggagagg agcagaaccc gaggttgagc atctctctcc cgtcctatga 900
gtcactgacg gggctcgacg agaccacccc cacatccacc agggctgacg tggaggccag 960
ccctgggaac cccctgaca ggcagaactc taagttggcc aaacgactga aaccgctgaa 1020
agttcgaagg attaaatctg aaaagcttca cctcaaagac tttaggatca acctcccaga 1080
caaaaacgtc cctcctccct cgatagagcc ttgactcct ccaccgcagt atgatgaagt 1140
ccaggagaag gccccgaca ccggcgcgc cgactgaatg gccccacttg agccacgctc 1200
cctcctgtct ctacacatt tcacccccaa gactctaaca aagccacatg agccacagtt 1260
gagaagcggg ggggccagct gtgcatggag ccatttggat ggcgcgggc gggggggatt 1320
ctctgtatca ggagtgaatt tgttgcccca cacagcctcc tgctgcaggt gctttggaaa 1380
gagatgctgc cttggagctg gtgaatctgt ggaccacatt caagggtgtg gcacaggcat 1440
cttcccaccc ttttactcct gaatcgctgg cgacacattc tcctttccag ctaggaaagg 1500
gttcctcgcg gctggtttag attgtggttg ttgttttgc ttctactaag actgttttgt 1560
ttcaaaaagg aaacaaattt tgtgtttgct gtctacgctg gactcctgaa ctgtgggtag 1620
aaaacacgac ctggctttgt agaaaggaca cagggtgtgt ttatgaacta agcgggtgagg 1680
ctcagggtggc ggctctcaca gagcccctga tgctgttgtt ctttgagggc ttaaggcctg 1740
atgaacgtag gcacgtgatg cgtaatagtc ttcaatggta cacttaacta gtctcttctg 1800
tgtaacagc

```

<210> 10848  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 10848  
 Met Met Ala Gln Ser Lys Ala Asn Gly Ser His Tyr Ala Leu Thr Ala  
 1 5 10 15  
 Ile Gly Leu Gly Met Leu Val Leu Gly Val Ile Met Ala Met Trp Asn  
 20 25 30  
 Leu Val Pro Gly Phe Ser Ala Ala Glu Lys Pro Thr Ala Gln Gly Ser  
 35 40 45  
 Asn Lys Thr Glu Val Gly Gly Gly Ile Leu Lys Ser Lys Thr Phe Ser  
 50 55 60  
 Val Ala Tyr Val Leu Val Gly Ala Gly Val Met Leu Leu Leu Ser

65		70		75		80									
Ile	Cys	Leu	Ser	Ile	Arg	Asp	Lys	Arg	Lys	Gln	Arg	Gln	Gly	Glu	Asp
				85					90					95	
Leu	Ala	His	Val	Gln	His	Pro	Thr	Gly	Ala	Gly	Pro	His	Ala	Gln	Glu
			100					105					110		
Glu	Asp	Ser	Gln	Glu	Glu	Glu	Glu	Glu	Asp	Glu	Glu	Ala	Ala	Ser	Arg
		115					120					125			
Tyr	Tyr	Val	Pro	Ser	Tyr	Glu	Glu	Val	Met	Asn	Thr	Asn	Tyr	Ser	Glu
		130				135					140				
Ala	Arg	Gly	Glu	Glu	Gln	Asn	Pro	Arg	Leu	Ser	Ile	Ser	Leu	Pro	Ser
145					150					155					160
Tyr	Glu	Ser	Leu	Thr	Gly	Leu	Asp	Glu	Thr	Thr	Pro	Thr	Ser	Thr	Arg
			165					170						175	
Ala	Asp	Val	Glu	Ala	Ser	Pro	Gly	Asn	Pro	Pro	Asp	Arg	Gln	Asn	Ser
		180					185						190		
Lys	Leu	Ala	Lys	Arg	Leu	Lys	Pro	Leu	Lys	Val	Arg	Arg	Ile	Lys	Ser
		195					200					205			
Glu	Lys	Leu	His	Leu	Lys	Asp	Phe	Arg	Ile	Asn	Leu	Pro	Asp	Lys	Asn
	210				215						220				
Val	Pro	Pro	Pro	Ser	Ile	Glu	Pro	Leu	Thr	Pro	Pro	Pro	Gln	Tyr	Asp
225					230					235					240
Glu	Val	Gln	Glu	Lys	Ala	Pro	Asp	Thr	Arg	Pro	Pro	Asp			
			245					250							

<210> 10849  
 <211> 1443  
 <212> DNA  
 <213> Homo sapiens

<400> 10849  
 gaatgtaccg ccactctgtt agctcacaag gaaaataagg aaaagccagg cctcccacct 60  
 cttgactctt gtgagagtga agacaacatg gggcatttag aaaatatatt tttagtgtat 120  
 gataatgtgg gctggccac acagcaatga gcccaaagac cccctcgctt tgggaattat 180  
 tcatggccct gctcatcaca gcctctgata tgcatgactg taacctaggc tgagccaaga 240  
 atggagctca tgccagaaat ggtcctaagc atgcacatgg ccccttgga tatcaaaatc 300  
 ctggggagaa agaaatcatc ttgcttgg gcagtgaagc tggaatggca catatctatc 360  
 tgttgccaca tctctgcct agtggagaag ccttggaagg caacagacac tgagcaagca 420  
 gcagggagga gaatgtcctg gaagggcagg actctaccca agtcctaac atccccagac 480  
 tcttctcttc cataaactct ctaattactc tgctgtttaa atcctggttt tgggtcaagcc 540  
 agtcaggttg cataaagaat atgaatacag tatgcatcaa agttgcttcc cagaacagga 600  
 agcaaaacaa acaaacaaac aaacaaaata ctgatatacag taccagggg gcccaattag 660  
 gtcacaccca gtggctgcat tgcagccct gagctcctgc tgcaccgtgt gtctgtctgc 720  
 ccgagtgggc cccaccctgg gttctgaaga tgcccttctt aatggagagc tccgatgga 780  
 gggctccagg actgatgctc tccctaagga agggaggcct cagatttgga gagggacacc 840  
 aacaggacca gaggaggact gaggggcact ggcaccaata agtggaaagg aacagcgtgg 900  
 taacaaaaaa gagccatgcc acttgcatgc tggagggagt ctttttgtgt cagcctaaag 960  
 cttaggctgg tgtccatgtg gaacatgaca tctttccagt atccctgatc caggaaactg 1020

09629469.072300

cagt	gagacc	caggt	gaccc	agctct	gtgt	cattt	ggagc	ccatt	aaaaa	gtgagg	cagc	1080
cacat	ggcgg	ggacatt	gac	cccact	ccag	accacact	cc	catctccata		cataggatag		1140
aaact	gttca	tcagga	agga	aaaccaa	aca	gaaattt	gtg	gtctagggga		ggggtctgca		1200
ttcag	catgg	ccatgct	ggg	ctggag	tggc	tgtgggg	gtg	ccagatagat		gggcatgtag		1260
actagt	gctt	tctcaac	ctt	taatg	catgc	acaaatc	atc	gagatctt	gt	taaaatgtag		1320
atcct	gggtg	ggcacg	gtgg	ctcacg	cctg	taatccc	agc	actttggg	ag	gctgaggcgg		1380
gcggat	catg	aggtcagg	ag	atcgag	acca	tcctggc	taa	cacgggtg	aaa	ccctgtctct		1440
act												1443

<210> 10850

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (166).. (597)

<400> 10850

gtatag	taac	cactga	acta	gagaag	taat	cttttt	taaa	tggtat	ggca	tttact	aa	agt	60
agtcatt	aac	accta	ataga	tgatatt	tttag	tgtgtg	tgtct	gtgtgg	ccgt	caccgc	ccgtc		120
agtcatt	cact	ctgctt	tctt	cctga	actgt	gttgtt	tcgg	accccat	ggg	tgagc	agtct		180
gaggg	aatgg	ctccc	gtgtc	ttcat	ctacg	gtcagt	ttctg	taacg	aaaac	ttctg	ggcag		240
cagca	agtgt	gtgtg	agcca	ggccac	ccgtg	ggaacct	gca	aggct	gccac	ccccac	ccgtc		300
gtcag	cacca	cgtccc	ctcgt	gcctac	acca	aacccat	ct	ctggg	aaaagc	cacagt	atcc		360
ggtgag	ttgc	attgt	gatata	tattt	ctctc	tctttt	ctct	cattg	ggcgtg	gaatatt	tttt		420
gtttg	tttgt	ttgag	atagc	gtctc	actct	gtcgccc	aaag	ctagag	tgc	atatc	acaat		480
ctcgact	cac	tgca	acctct	gcctt	ccagg	ctcaag	ccat	cctccc	acct	cagcct	ctttg		540
attat	cagg	accac	aggca	catgt	cacca	caccag	cta	attttt	ttgtg	ttttt	ggtag		600
agatg	gggtt	tcacc	acgtt	gccag	ggtg	gtgtt	gaa	cctcag	gtca	agcag	tccac		660
ccacct	cagc	ctccc	aaagt	gctggg	atta	caggcg	ttag	ccact	gtgcc	cagct	atttt		720
tttgg	agggt	ctta	agcaat	atttt	gtatg	gtaaa	ttgtt	aaaag	taatt	aacc	cagcag		780
cattt	ctga	acagt	tgtctt	tttag	atgaa	ttattt	ttgt	ttaaa	atcta	cgtat	cagat		840
tttgt	ctgag	acttta	aaatt	atcatt	tigaa	agttact	att	tgaatt	ttttg	aatgat	ataa		900
taaac	cccta	gccac	gcaga	accct	actgg	gtattt	tttagc	tttttt	tata	acgta	atttt		960
gggg	agagcc	aagag	tttgc	tttc	cttaaa	gtacta	aat	cttttt	tcct	ataat	cagtg		1020
tcga	atagaa	ttcact	tataa	aatgt	tatacc	tttctt	ttgtc	tttata	aaagt	atata	aaata		1080
tatct	tagcc	ttgtt	gactc	caagt	cataa	ttttta	acat	tagtt	attat	cttgg	ctagt		1140
gttag	agtga	taggc	tggag	atccag	taag	agctat	gggtg	tcttt	gtgcc	tgcact	tagag		1200
ggcct	cagaa	aagt	gtacct	tttgt	tttctg	agta	acagag	agcac	acatc	ctgag	accac		1260
attgc	cttag	ttga	agtgat	ttgctt	tcagt	ttctc	agctg	taaat	gagat	tgata	ataat		1320
acctact	tca	taagg	tttag	agg	tttaaat	gag	ttt	gttaa	tatat	cagtg	cttaga	atac	1380
tgtct	gggtg	gtagt	ggcca	ttatata	aaac	aattg	ccact	gccatt	tatca	tgtgt	gatca		1440
ttttt	gtt												1448

<210> 10851

<211> 144  
<212> PRT  
<213> Homo sapiens

<400> 10851  
Met Gly Glu Gln Ser Glu Gly Met Ala Pro Val Ser Ser Ser Thr Val  
1 5 10 15  
Ser Ser Val Thr Lys Thr Ser Gly Gln Gln Gln Val Cys Val Ser Gln  
20 25 30  
Ala Thr Val Gly Thr Cys Lys Ala Ala Thr Pro Thr Val Val Ser Thr  
35 40 45  
Thr Ser Leu Val Pro Thr Pro Asn Pro Ile Ser Gly Lys Ala Thr Val  
50 55 60  
Ser Gly Glu Leu His Cys Asp Ile Ile Ser Leu Ser Phe Leu Ser Leu  
65 70 75 80  
Gly Trp Asn Ile Phe Val Cys Leu Phe Glu Ile Ala Ser His Ser Val  
85 90 95  
Ala Gln Ala Arg Val Gln Tyr His Asn Leu Asp Ser Leu Gln Pro Leu  
100 105 110  
Pro Ser Arg Leu Lys Pro Ser Ser His Leu Ser Leu Leu Ile Ile Arg  
115 120 125  
Asp His Arg His Met Ser Pro His Pro Ala Asn Phe Leu Cys Phe Trp  
130 135 140

<210> 10852  
<211> 1713  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1040).. (1507)

<400> 10852  
atgatcttat ttaatttaaat tggttatttgt attctatgaa gtaagctata cacacactgt 60  
tcagatgatg aacctgaggc ttaaggtagt taattgctcc agatcactca gctagtaagt 120  
actgaagctg atatttggac agatgcctga ctccaaagtc atgctcttaa aatgcaaagt 180  
atgaatatac atttgcattc tttattccaa aaaagatttt gttcttttagt gataaaaaatc 240  
atgaaaacca cttggtctat tgctccataa atctgcttaa tcagatatta ttattgcctc 300  
actaactctc ctttttaaaa gaagatccaa agatgataaa atataaggac aaaactaagt 360  
aagcttctct taatggaaag taaaaatgtt tcaattttct cccttgtgtt ttaagctgaa 420  
gaaagccctt gatgaagcta acttcagatc agtggaaagt tcccggacca accgagagct 480  
gcgacagaaa cttgcagagc tagaaaaaat actagaaagt aacaaggaga aaataaagaa 540  
tcaaaagacc caaattaagc tccacttgtc agctaaggcg aataatgctc agaatataga 600  
aaggatgaag gttgtatggg aaacctcttc tcaacttctg gataccctgt gaggatgtag 660  
tcagtcaatg gtgtctaggg aagacagggt ttagaaccct accagcccca tgtattctct 720  
gggaattata gccagttgtc tttggggaga ctttttcagt ggagtcactg ctgtgtaaat 780

00827069462960

```

gtttgatttc tcatttgctg ccagtggtcac attccggctc cctatctgtc ccttccgtgt 840
tgattgtact ggactttgct cttttgggat cagtgggcta gatgggaaag aaagctcagc 900
aggaactggg aactttgggt ctcatattgg attctttctg tcctctata ggcaaaaaga 960
gcaagccagt ttttccactg atcatctttt tatgttattt tccaattact tttagcaaatt 1020
agaaaaagaa ttgaagcaaa tggagctaata taaggatcaa tatcagaaaa agaactatga 1080
acagtctttg agtatccaga gatttgtgtg tgaatgact aacctgcaga aagagatgca 1140
gatgttggct aagagccaat atgatgcctc agtgcggaat aaacagcaag agctgcacct 1200
agaagcagag cggaaaataa ggcaggagct agagaatcgg tgcaggaat tggaagaaac 1260
tgtcagacac ctgaagaaat gtaaagaggc aacagagaat acgctgaaag aagccagtgt 1320
ggaatcagaa cagataacag ctaatctgga agaagctcat cgctggttta agcacagggt 1380
tgatgttcta caacttgagc tgacaaaaaa ccggttgtag aggccttctg gggagacag 1440
gtggcaggaa aaggaccaag atgtaaaaca tgatgtcatg tccttgacaa gggagcttct 1500
ttatgtgtag ctacactcca tgattccaag agcccagcag ccggggctgg cctgtttcta 1560
gagtcataag aacatgaagt ctttgatgtg ggctgaagat tttggacctg agtttatcac 1620
tttatgaact cttatatcag tacaaaacta cccctttttt tgtccctttt cacattttcc 1680
accaataaaa tttgtgttaa tttgttgtat gat 1713

```

<210> 10853  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 10853

Met	Glu	Leu	Ile	Lys	Asp	Gln	Tyr	Gln	Lys	Lys	Asn	Tyr	Glu	Gln	Ser
1				5					10					15	
Leu	Ser	Ile	Gln	Arg	Phe	Val	Cys	Glu	Met	Thr	Asn	Leu	Gln	Lys	Glu
			20					25					30		
Met	Gln	Met	Leu	Ala	Lys	Ser	Gln	Tyr	Asp	Ala	Ser	Val	Arg	Asn	Lys
		35					40					45			
Gln	Gln	Glu	Leu	His	Leu	Glu	Ala	Glu	Arg	Lys	Ile	Arg	Gln	Glu	Leu
		50				55					60				
Glu	Asn	Arg	Cys	Gln	Glu	Leu	Glu	Glu	Thr	Val	Arg	His	Leu	Lys	Lys
		65				70				75				80	
Cys	Lys	Glu	Ala	Thr	Glu	Asn	Thr	Leu	Lys	Glu	Ala	Ser	Val	Glu	Ser
				85					90					95	
Glu	Gln	Ile	Thr	Ala	Asn	Leu	Glu	Glu	Ala	His	Arg	Trp	Phe	Lys	His
			100					105					110		
Arg	Phe	Asp	Gly	Leu	Gln	Leu	Glu	Leu	Thr	Lys	Asn	Arg	Leu	Gln	Arg
		115					120					125			
Pro	Ser	Gly	Glu	Asp	Arg	Trp	Gln	Glu	Lys	Asp	Gln	Asp	Val	Lys	His
		130					135				140				
Asp	Val	Met	Ser	Leu	Thr	Arg	Glu	Leu	Leu	Tyr	Val				
145						150					155				

<210> 10854  
 <211> 2373

008270.69462960

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (956).. (1267)

<400> 10854

```

aaaaactgat gaaggaaatt gaagaagaca caaataaatg gaaaggatc ctatgttcat 60
ggattggaag gattaatatt attaaaatgt tcatgctgcc caaagcacta tatagattca 120
gtgcattccc tccaaaattt ttaaatttaa tgacattttt cacgaaagca gaaaaaataa 180
tttttaataa tacatatttc agaatacatt gtccacaata aagatatatg attttttgtc 240
agttaaaagt taattttttt aaaaagatac ctatagcctc ttattgaggt ggaatctgtt 300
gctcttggag ctacgtactg ttgactttgg tttcttgga acatcagtg ctttttagaac 360
attaggatat ttttcttttt gaatatcaac aaaaacataa ataaaaatac tagtaatgac 420
atttacagta tgtttcacag attaatcaca tctctgagtg ggagtcttta tctgtttag 480
gatctactct tgccattcta ttctggggtt tggttgatta gtctttcttg aacacttcca 540
gaaattggag atgtatgcct gccttaggta gcctagctta ttttattaat gaacatatcc 600
atttaaaaaa ttcttccttg taatgagctt aaacttgcct tctgttaatt tgtatccact 660
ggtccttttt ctttgttctc cctcttgcct atgccagtac ttcaatagct ggtcccagct 720
ccattgacgc cctctctcag gatcacacat cacaggctct tcagaatctc ctaatggtct 780
ctctgatctc caggcaacac actactctaa cctttctatg cttttctggc ctgcagttca 840
tttctgttcc tgtgaagtca tagagccgcg aattcatgct gtcttgttcc cctattaaaa 900
tataattttg taaatctctt taggattcgt gaagtttttt ggaaacctgg ctgtcatgga 960
tagtctctca cagatctgtg agcgttatcc tatctttgtg gaaaaagtct ttgaaatgat 1020
agaaagtcat gaccccaacta tgattgggtg agctgtagac acagttggaa tcttgggcat 1080
caatgttgaa ggaaaacagg ttttacagaa aacaggttgg tatgacttgg cctgtttcag 1140
ggatatctta atctttgaca ggggttcaat atgtaagttc atttgctggg ggggttaacta 1200
cattgtagaa actattttat ggggtggcag cttgttaacc atgacctgt actcatgtct 1260
gaaaatctaa taattattac ggaaaacctt tttttttttt ttttgacttt tcaactggtt 1320
aggttttcat tggtttaggt ttctaccaat ogatttcaac caaacattgt ttctgtttc 1380
ccctctatga tgtcttcttt gactagattt catggtacaa agaccacggg ctagagtcag 1440
aaaggtctgg attcatgtcc ttgggttttc tattcttttt tttttttttt ttttaagaga 1500
ttgagagtgt ctctctgtta ccaggctgg ccccgaaact ccgggctcaa gcaatcctcc 1560
tgccatcatc tcttgatttg ctgggtctac aggtccacac cattgtatcc agccctgact 1620
ttgctttttg aacttcattt actcacttca cttttctagg cctcattttc ttcatttata 1680
aaaatggcat aacaactgct tctcagggtt gttgtgaata tttatgaaat tttgagaaag 1740
gaaaataaaa gtttgttata agatttcatg ttaagagata cttttggcat gtttaagagat 1800
acaatggttc atgcctgtta tccagcactt tgggaggcta aggtgggtgg gttgcctgag 1860
ctcaggagtt caagaccagg ctgggcaaca tggcaaaaat ctatctctac tcaagaatac 1920
aaaaattaac caggcatggt actgcacaac tgtagtccca gctacttgag aagctgagga 1980
aggagaatct cttgaacctg gcagggtggg gttgcagtga gctgagatca tgccactaca 2040
ctccagcctg ggtgacagag tgaatttcta tctcaaaaaa aaaaaaaaaa aagaggccag 2100
gtatggtggc tcatgcctgt aatcccagca ttttgggagg ccaaagcagg tggatcactt 2160
gaggtcagga gctcgagacc agcctggcca acatggtgaa accctgtctc tactaaaagt 2220
acaaaaatca gccaaagctg gtggtgcatg cctgcagtc cagctactcg ggaggctgag 2280
gcaggagaat ggcatagaaca caggaggtta aggttgcagt gagccgagat cacaccactg 2340
cactccagcc tgggcgacag tgcgagactc tgt
2373

```

09629469 "072800



<210> 10855  
<211> 104  
<212> PRT  
<213> Homo sapiens

<400> 10855  
Met Asp Ser Pro Gln Gln Ile Cys Glu Arg Tyr Pro Ile Phe Val Glu  
1 5 10 15  
Lys Val Phe Glu Met Ile Glu Ser Gln Asp Pro Thr Met Ile Gly Val  
20 25 30  
Ala Val Asp Thr Val Gly Ile Leu Gly Ser Asn Val Glu Gly Lys Gln  
35 40 45  
Val Leu Gln Lys Thr Gly Trp Tyr Asp Leu Ala Leu Phe Arg Asp Ile  
50 55 60  
Leu Ile Phe Asp Arg Gly Ser Ile Cys Lys Phe Ile Cys Trp Trp Val  
65 70 75 80  
Asn Tyr Ile Val Glu Thr Ile Leu Trp Val Ala Val Leu Leu Thr Met  
85 90 95  
Thr Leu Tyr Ser Cys Leu Lys Ile  
100

<210> 10856  
<211> 1348  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (126).. (740)

<400> 10856  
cctctccccc cgggctccgc ccaccccacg ccgggaaccc acgcgggcca ctacaagccc 60  
gccctttcct acgtctggtc cagtcggtct tcctccggcc cgggccctgg ccagctagc 120  
cggccatgga aggtaatggc ccgctgctg tccactacca gccggccagc cccccgcggg 180  
acgcctgcgt ctacagcagc tgctactgtg aagaaaatat ttggaagctc tgtgaatata 240  
tcaaaaacca tgaccagtat cttttagaag aatgttatgc tgtcttcata tctaatagaga 300  
ggaagatgat acctatctgg aaacaacagg cgagacctgg agatggacct gtgatctggg 360  
attaccatgt tgttttgctt catgtttcaa gtggaggaca gaacttcatt tatgatctcg 420  
atactgtctt gccatttccc tgcccttttg acacttatgt agaagatgcc ttttaagtctg 480  
atgatgacat tcacccacag tttaggagga aatttagagt gatccgtgca gattcatatt 540  
tgaagaactt tgcttctgac cgatctcaca tgaagactc cagtgggaat tggagagagc 600  
ctccgccgcc atatccctgc attgagactg gagattccaa aatgaacctg aacgatttca 660  
tcagtatgga tccaaggtta ggatggggcg ccgtctacac actatccgaa tttacacatc 720  
ggtttggcag taaaaactgc tgaacttggt ctcaagatgt ggaactgtgg agaaattcta 780  
ggacatgaac aagctatcct ttcacgagg acagcaaaca ttatggtaca gttggcttgg 840

09629469.072800

```

aattatgtct ttctctttta atttgattga gtggaaatct gagtgaatac aaatataaat 900
gaacaacata aaaacttttg ttttgacatg tcaaattgaa acttgataaa gtgcgtactt 960
gctaagatat tcctgtggct catgcgttac aacacgagga ctttaagccag taatcgtttt 1020
tggtcagata gaggtgtgga ggtagagcca gccctcatg tctgttttgg atgttttgtg 1080
tctctccagc tacattgtaa gttccttgag ggcagggcca tggccattg ctctgtgaat 1140
ctcaaagtcc cataaaaggt gcccataaaa tgttttcttg aacatttgaa tgtgctgttg 1200
tctggaaagg ggtaatatig tgagctgaat cagcaataag tattagtctt tttggactat 1260
ggtattgtta aaaagactgc agccctctca gacttgagcg ttaattggct tatttattta 1320
tggttttaaa taaaatcgat ttaacgtt                                     1348

```

<210> 10857  
 <211> 205  
 <212> PRT  
 <213> Homo sapiens

<400> 10857

Met	Glu	Gly	Asn	Gly	Pro	Ala	Ala	Val	His	Tyr	Gln	Pro	Ala	Ser	Pro	1	5	10	15
Pro	Arg	Asp	Ala	Cys	Val	Tyr	Ser	Ser	Cys	Tyr	Cys	Glu	Glu	Asn	Ile	20	25	30	
Trp	Lys	Leu	Cys	Glu	Tyr	Ile	Lys	Asn	His	Asp	Gln	Tyr	Pro	Leu	Glu	35	40	45	
Glu	Cys	Tyr	Ala	Val	Phe	Ile	Ser	Asn	Glu	Arg	Lys	Met	Ile	Pro	Ile	50	55	60	
Trp	Lys	Gln	Gln	Ala	Arg	Pro	Gly	Asp	Gly	Pro	Val	Ile	Trp	Asp	Tyr	65	70	75	80
His	Val	Val	Leu	Leu	His	Val	Ser	Ser	Gly	Gly	Gln	Asn	Phe	Ile	Tyr	85	90	95	
Asp	Leu	Asp	Thr	Val	Leu	Pro	Phe	Pro	Cys	Leu	Phe	Asp	Thr	Tyr	Val	100	105	110	
Glu	Asp	Ala	Phe	Lys	Ser	Asp	Asp	Asp	Ile	His	Pro	Gln	Phe	Arg	Arg	115	120	125	
Lys	Phe	Arg	Val	Ile	Arg	Ala	Asp	Ser	Tyr	Leu	Lys	Asn	Phe	Ala	Ser	130	135	140	
Asp	Arg	Ser	His	Met	Lys	Asp	Ser	Ser	Gly	Asn	Trp	Arg	Glu	Pro	Pro	145	150	155	160
Pro	Pro	Tyr	Pro	Cys	Ile	Glu	Thr	Gly	Asp	Ser	Lys	Met	Asn	Leu	Asn	165	170	175	
Asp	Phe	Ile	Ser	Met	Asp	Pro	Lys	Val	Gly	Trp	Gly	Ala	Val	Tyr	Thr	180	185	190	
Leu	Ser	Glu	Phe	Thr	His	Arg	Phe	Gly	Ser	Lys	Asn	Cys	195	200	205				

<210> 10858  
 <211> 1587  
 <212> DNA

09629469.072800

<213> Homo sapiens

<400> 10858

```

ataaaatggg tacattatgg gcagtgtaat acaagctttc ttttcattgc ctagtacttt 60
accagcagac cacagttttg ccttggttag accaaccctc agaacaaaat catcattcct 120
tgtatttata tttgtatctg agatagtaaa caagatgggt ggccagggtc acatggcacc 180
ttaacttatt tttttaatag gtaaaacttc ttcaaaagta gcttgcttgt ataagaacta 240
agctatcagt atagatatag ctatccttgg agcttatgtt tcagacagga attatttact 300
aaaataaata ataaacaaga taatgcatta tacaatttgg gcatttctcg tttctcaagt 360
gtatgcatca tggtaaatat aaactaacca caagataggt agattgattc atttcatttt 420
aatctccttg tgtaattcag tacctccata attgttctaa tcttcttccc actgtttaca 480
aattaccagt taattaactc gtgaaagaaa aattcacata tcagaataaa aataaatgta 540
tactcacttt ataaaaatca ccactgctgt ctttccctaa tactagcagt ggaaatgtaa 600
gtggcttact ctacaaattt tgggtgctggc aaatacatag gcaaactgtt gggagctgct 660
ctagttacat tcctcccttc ttattccctt tttctcttcc tcactttatt gcataacata 720
ttcctgtacc caaagcattc taccacagtt ctatttgact cccacttgta ataactcctt 780
taaaaaattc catgttttaac catatgacct tgcttgctta ctcatattct cctccctct 840
ccccttcctt tctctctctt ccagaagtca ttgacctggg ttgaaatatt ttgtagggat 900
tgcttattat attatttttag ctgatgaacc tcaggacaac gtctacacac acacacatac 960
atacacgcac acaaaatctc agctgttgaa gagtgggctt ggaatcagac ttctgtgtcc 1020
agtaaaaaac tcctgcactg aagtcattgt gacttgagta gttacagact gattccagt 1080
aacttgatct aatttctttt gatctaata gaatgtctgc ttaccttgtt tctttttaat 1140
tgataagctc caagtagttg ctaatttttt gacaacttta aatgagtttc attcacttct 1200
tttacttaat gttttaagta tagtaccaat aatttcatta acctgttctc aagtggttta 1260
gctaccattc tgccattttt aatttttatt taattttatt tgcttgagca cactgatcaa 1320
ccactgaact gccttcttcc attgtcctgc aatgatataa ggggttacatt tttgtgtata 1380
tggttttcat agttgggatt tcagagcact gataccagat attttcagtt tgttctctgg 1440
gggaatttca tttgcatcta tgttttttagc tatctgtgat aacttgtaa atattaaaaa 1500
gatattttgc ttctattgga acatttgtat actcgcaact atatttctgt aaacagctgc 1560
agtcaaaaat aaaacactga aagttttt
1587

```

<210> 10859

<211> 1743

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (46).. (1494)

<400> 10859

```

gtgttagaat ttctgtccca aaaagacaaa gagagaatca aagaaatgaa gcaggcaact 60
gacctgaaag cagctcagct caaggccagg agtctggccc agaacgctca gagcagcaga 120
gcccagctct cccctgcagc ggctgctggg tactgtctctt ggaacatggc attaggtgg 180
gggacggcca ccttaaaagc cagcaacttc aagcctttcg ccaaagatcc ggaaaagcaa 240
aagcgatacg acgagttctt agtacacatg aaacagggtc agaaagatgc tctggaacgc 300
tgtctggacc ccagcatgac ggagtgggag cgaggcogtg agcgggatga gtttgcccg 360

```

09629459.072300

```

gcgggccctgc tgtacgcac tttccattcg acctgttcct ccagggttcac tcacgccaaag 420
gaggaggatg actcagatca ggttgaagtc cctcgagacc aagagaatga tgtcggggat 480
aagcagtcgg ctgtgaagat gaagatgttt gggaagctca cccgagacac gtttgagtgg 540
caccctgaca agcttctatg taagagattt aatgtccctg acccttatcc agattcaact 600
ttagttggct taccaagagt gaagcgtgac aagtactcag tottcaactt tctgacgctc 660
ccagagacag cttccttgcc caccactcaa gcatcaagtg aaaaagtatc acagcaccga 720
ggtcccgcaca aatcaagaaa accatccaga tgggatacct ctaaaccacga aaagaaagaa 780
gattccatta gtgaattttt aagtttggct agatcaaaaag ccgagccacc taaacaacag 840
tccagcccct tagtaaacaa agaggaagag catgcaccag aatcatccgc aaatcagaca 900
gtcaacaaaag atgtggacgc acaggctgaa ggagaaggga gccgcccac tcaggactta 960
ttcagggcca tctttgccag ttcctcagat gaaaagtcc catcctccga ggatgagcaa 1020
ggtgacagtg aagatgatca ggcaggctct ggggaggcca acttccaaag ctccaagac 1080
actgacttgg gggaaacatc atctgtggct cagctctttg tgccagcacc ccaggagccg 1140
ccaccttcct tcccgataca aaagatgcag atagatgaaa gagaagagtt cggcccgcgg 1200
ctgcctcccg tcttctgccc caatgctcgt cagacacttg aggttcctca aaaagagaaa 1260
cataaaaaaga acaaagacaa gcacaaggcc aagaaagagc acaggcggaa gaaagagaag 1320
aaaaagaaac acaggaagca caaacacaaa ggcaagcaaa agaataaaaa accagagaaa 1380
agtagtagct ccgagagttc cgacagcagc gacagccaga gtgacgagga aaccgcagac 1440
gtgtcgcgcc aggagctgct gagacggctg aaaagtcttc cactaagaag gcagtaattg 1500
aatgctgccc tggctcgtcc tagaatcatt tctcctccat gatggaagcc cagtgattgt 1560
tcagttaacg cattgtacag agtgtattta tatgtaaatt cctgctgtaa aataattttt 1620
aaaaccttga catttcaaag actgccttga aaggctgcag aaattgattt ctatttttaa 1680
tttcagttag tatcggggga aaaaaatcca gattgaacag ttttaattaaa gtggaatttt 1740
tct

```

<210> 10860  
 <211> 483  
 <212> PRT  
 <213> Homo sapiens

```

<400> 10860
Met Lys Gln Ala Thr Asp Leu Lys Ala Ala Gln Leu Lys Ala Arg Ser
  1             5             10             15
Leu Ala Gln Asn Ala Gln Ser Ser Arg Ala Gln Leu Ser Pro Ala Ala
             20             25             30
Ala Ala Gly Tyr Cys Ser Trp Asn Met Ala Leu Gly Gly Gly Thr Ala
             35             40             45
Thr Leu Lys Ala Ser Asn Phe Lys Pro Phe Ala Lys Asp Pro Glu Lys
             50             55             60
Gln Lys Arg Tyr Asp Glu Phe Leu Val His Met Lys Gln Gly Gln Lys
             65             70             75             80
Asp Ala Leu Glu Arg Cys Leu Asp Pro Ser Met Thr Glu Trp Glu Arg
             85             90             95
Gly Arg Glu Arg Asp Glu Phe Ala Arg Ala Ala Leu Leu Tyr Ala Ser
             100            105            110
Ser His Ser Thr Leu Ser Ser Arg Phe Thr His Ala Lys Glu Glu Asp
             115            120            125

```

09629469.072800

Asp	Ser	Asp	Gln	Val	Glu	Val	Pro	Arg	Asp	Gln	Glu	Asn	Asp	Val	Gly
130						135					140				
Asp	Lys	Gln	Ser	Ala	Val	Lys	Met	Lys	Met	Phe	Gly	Lys	Leu	Thr	Arg
145					150					155					160
Asp	Thr	Phe	Glu	Trp	His	Pro	Asp	Lys	Leu	Leu	Cys	Lys	Arg	Phe	Asn
				165					170					175	
Val	Pro	Asp	Pro	Tyr	Pro	Asp	Ser	Thr	Leu	Val	Gly	Leu	Pro	Arg	Val
			180					185					190		
Lys	Arg	Asp	Lys	Tyr	Ser	Val	Phe	Asn	Phe	Leu	Thr	Leu	Pro	Glu	Thr
		195					200					205			
Ala	Ser	Leu	Pro	Thr	Thr	Gln	Ala	Ser	Ser	Glu	Lys	Val	Ser	Gln	His
210						215					220				
Arg	Gly	Pro	Asp	Lys	Ser	Arg	Lys	Pro	Ser	Arg	Trp	Asp	Thr	Ser	Lys
225					230					235					240
His	Glu	Lys	Lys	Glu	Asp	Ser	Ile	Ser	Glu	Phe	Leu	Ser	Leu	Ala	Arg
				245					250					255	
Ser	Lys	Ala	Glu	Pro	Pro	Lys	Gln	Gln	Ser	Ser	Pro	Leu	Val	Asn	Lys
			260				265						270		
Glu	Glu	Glu	His	Ala	Pro	Glu	Ser	Ala	Asn	Gln	Thr	Val	Asn	Lys	
		275				280					285				
Asp	Val	Asp	Ala	Gln	Ala	Glu	Gly	Glu	Gly	Ser	Arg	Pro	Ser	Met	Asp
290						295					300				
Leu	Phe	Arg	Ala	Ile	Phe	Ala	Ser	Ser	Ser	Asp	Glu	Lys	Ser	Ser	Ser
305					310					315					320
Ser	Glu	Asp	Glu	Gln	Gly	Asp	Ser	Glu	Asp	Asp	Gln	Ala	Gly	Ser	Gly
				325					330					335	
Glu	Ala	Asn	Phe	Gln	Ser	Ser	Gln	Asp	Thr	Asp	Leu	Gly	Glu	Thr	Ser
			340					345					350		
Ser	Val	Ala	His	Ala	Leu	Val	Pro	Ala	Pro	Gln	Glu	Pro	Pro	Pro	Ser
		355					360					365			
Phe	Pro	Ile	Gln	Lys	Met	Gln	Ile	Asp	Glu	Arg	Glu	Glu	Phe	Gly	Pro
370						375					380				
Arg	Leu	Pro	Pro	Val	Phe	Cys	Pro	Asn	Ala	Arg	Gln	Thr	Leu	Glu	Val
385					390					395					400
Pro	Gln	Lys	Glu	Lys	His	Lys	Lys	Asn	Lys	Asp	Lys	His	Lys	Ala	Lys
				405					410					415	
Lys	Glu	His	Arg	Arg	Lys	Lys	Glu	Lys	Lys	Lys	Lys	His	Arg	Lys	His
			420				425						430		
Lys	His	Lys	Gly	Lys	Gln	Lys	Asn	Lys	Lys	Pro	Glu	Lys	Ser	Ser	Ser
		435					440					445			
Ser	Glu	Ser	Ser	Asp	Ser	Ser	Asp	Ser	Gln	Ser	Asp	Glu	Glu	Thr	Ala
450						455					460				
Asp	Val	Ser	Pro	Gln	Glu	Leu	Leu	Arg	Arg	Leu	Lys	Ser	Leu	Pro	Leu
465					470					475					480
Arg	Arg	Gln													

09629469.072600

<210> 10861  
<211> 1649  
<212> DNA  
<213> Homo sapiens

<400> 10861  
atagaaaatt agaaaagcag agaattcgag aagagaagcg agaagaacgg aggaggagag 60  
agttagaaaa gaaacgtttg cgggaagagg aaaaaagaag aagaagagaa gaagaaggat 120  
gcaaaaaaaaa agagacagat aaacagaaga aaattgcaga gaaagaagta aggattaagc 180  
ttcttaagaa accagaaaag ggagaggaac caaccacaga gaaacaaaaa gaaagaggag 240  
aggagattga tactggagggt ggcaagcagg aatcctgtgc ccccggtgca gtcgtaaaag 300  
ccaggcccat ggaaggctcg ctggaggagc ccaggagagc gtcacacagc ggcagtata 360  
aagagcacag ggatgtggag agatctcaag aacaagaatc tgaagcacia agataccatg 420  
tggatgacgg caggaggcac agagctcacc acgagcctga acggctttcc agaaggagt 480  
aggatgagca gagatggggg aaaggacctg gccaaagacag agggagaag gggagccagg 540  
acagcggggc tccgggggag gccatggaga gactgggaag agcgcagagg tgtgacgaca 600  
gtccagcacc cagaaaagag cgactggcaa acaaggaccg gccagccttg cagctgtatg 660  
atccaggagt tcgcttccga gcgcgagagt gtggcggaaa caggaggatc tgcaaggcag 720  
aaggttcggg gactggtcct gagaagaggg aagaggcaga gtgagtcact gcacgcacct 780  
ggcctccatg gacgagcaag ggcatcccag aaacgtgtaa atgaccccga gtgtgactgg 840  
gaaggagaac ttattcctta ccaggaaact ggaagctaaa aatacagagg gtgacgtaga 900  
aacacgcaga aaccattcta aagaaagtag tgatcttgta ttaaattgag cagaattctc 960  
acagatttta ccattcctgt tataaactag tatttgttgt ttagccaaaa cagaaaatga 1020  
tttccactgg acagtagaaa aatatgtgta aaatagggaa gaaagttagt attggatcag 1080  
tgtgagtcct gaagcacttt cagtgcctgt agaacgacat ccactttggg ttctattcgt 1140  
ttgtaagcag aggagctgtc agtcactcgt gcttctcggt ggctctgag ccattggtgtc 1200  
gagtgaagag tagttcttgt ttgttacaac ctttgtgagt cagccatgcc cgcaaagcgt 1260  
gctgtgtttt agtcctggta ggaatatatta tcagagttca cactatataa aacccaacag 1320  
cttcaactat tgccctttca acagttttgc cactgacgg atagaaacgg ttctagcttc 1380  
tggatggatg tgtttgtggt ttgtaaccat tacggtttaa accatgggtt aagaatttgc 1440  
ccaaataaca gaaattttgt tcgggaaggg ataaactaga tatagcatac agagcctgtt 1500  
tttgagtttt agatacttta ttgttaaata acttaaaata gctttctgaa accgtgcatt 1560  
ctgtagtttc ttcttttcag tgaaattgct aaatgtcaat gtatttttgg cactgcgatt 1620  
ttaaccattt attaaataaa aattttgtt 1649

<210> 10862  
<211> 1721  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (323).. (1561)

<400> 10862  
taattctaca tgtgtcgatg gcattaataa ctacacatgc ctttggccac ctgagtatac 60  
aggtgagttg tgtgaggaga agctggactt ctgtgcccag gacctgaacc cctgccagca 120

003240.6942960

cgattcaaag tgcacccctaa ctccaaaggg attcaaattgt gactgcacac cagggtacgt 180  
 aggtgaacac tgcgacatcg attttgacga ctgccaagac aacaagtgtg aaaacggagc 240  
 ccactgcaca gatgcagtga acggctatac gtgcatatgc ccgaagggtt acagtggctt 300  
 gttctgtgag ttttctccac ccatggctct cctcgtacc agccctgtg ataattttga 360  
 ttgtcagaat ggagctcagt gtatcgtcag aataaatgag ccaatatgtc agtgtttgcc 420  
 tggctatcag ggagaaaagt gtgaaaaatt ggtagtgtg aattttataa acaaagagtc 480  
 ttatcttcag attccttcag ccaagggttc gcctcagacg aacataacac ttcagattgc 540  
 cacagatgaa gacagcggaa tcctcctgta taagggtgac aaagaccata tcgcggtaga 600  
 actctatcgg gggcgtgttc gtgccagcta tgacaccggc tctcatccag cttctgccat 660  
 ttacagtgtg gagacaatca atgatggaaa cttccacatt gtggaactac ttgccttgga 720  
 tcagagtctc tctttgtccg tggatgggtg gaaccccaaa atcatcacta acttgtcaaa 780  
 gcagtccact ctgaattttg actctccact ctatgtagga ggcatgccag ggaagagtaa 840  
 cgtggcatct ctgcgccagg cccctgggca gaacgggaacc agcttcacag gctgcatccg 900  
 gaacctttac atcaacagtg agctgcagga cttccagaag gtgocgatgc aaacaggcat 960  
 tttgcctggc tgtgagccat gccacaagaa ggtgtgtgcc catggcacat gccagcccag 1020  
 cagccaggca ggcttcacct gcgagtgcca ggaaggatgg atggggcccc tctgtgacca 1080  
 acggaccaat gaccttgcc ttggaaataa atgcgtacat ggcacctgct tgcccatcaa 1140  
 tgcgttctcc tacagctgta agtgcttgga gggccatgga ggtgtcctct gtgatgaaga 1200  
 ggaggatctg ttttaacccat gccaggcgat caagtgcagg catgggaagt gcaggctttc 1260  
 aggtctgggg cagccctact gtgaatgcag cagtggatac acggggggaca gctgtgatcg 1320  
 agaaatctct tgtcgagggg aaaggataag agattattac caaaagcagc agggctatgc 1380  
 tgcttgccaa acaaccaaga aggtgtcccg attagagtgc agagggtggg gtgcaggagg 1440  
 gcagtgtgt ggaccgctga ggagcaagcg gcggaaatac tctttcgaat gcaactgacg 1500  
 ctccctcctt gtggacgagg ttgagaaagt ggtgaagtgc ggctgtacga ggtgtgtgtc 1560  
 ctaaacacac tcccggcagc tctgtctttg gaaaagggtg tatacttctt gaccatgttg 1620  
 gactaatgaa tgcttcatag tggaaatatt tgaaatatat tgtaaaatac agaacagact 1680  
 tattttttatt atgagaataa agactttttt tctgcatttg g 1721

<210> 10863  
 <211> 413  
 <212> PRT  
 <213> Homo sapiens

<400> 10863  
 Met Val Leu Pro Arg Thr Ser Pro Cys Asp Asn Phe Asp Cys Gln Asn  
 1 5 10 15  
 Gly Ala Gln Cys Ile Val Arg Ile Asn Glu Pro Ile Cys Gln Cys Leu  
 20 25 30  
 Pro Gly Tyr Gln Gly Glu Lys Cys Glu Lys Leu Val Ser Val Asn Phe  
 35 40 45  
 Ile Asn Lys Glu Ser Tyr Leu Gln Ile Pro Ser Ala Lys Val Arg Pro  
 50 55 60  
 Gln Thr Asn Ile Thr Leu Gln Ile Ala Thr Asp Glu Asp Ser Gly Ile  
 65 70 75 80  
 Leu Leu Tyr Lys Gly Asp Lys Asp His Ile Ala Val Glu Leu Tyr Arg  
 85 90 95  
 Gly Arg Val Arg Ala Ser Tyr Asp Thr Gly Ser His Pro Ala Ser Ala

09629469.072300

			100					105					110				
Ile	Tyr	Ser	Val	Glu	Thr	Ile	Asn	Asp	Gly	Asn	Phe	His	Ile	Val	Glu		
		115					120					125					
Leu	Leu	Ala	Leu	Asp	Gln	Ser	Leu	Ser	Leu	Ser	Val	Asp	Gly	Gly	Asn		
		130				135					140						
Pro	Lys	Ile	Ile	Thr	Asn	Leu	Ser	Lys	Gln	Ser	Thr	Leu	Asn	Phe	Asp		
145					150					155					160		
Ser	Pro	Leu	Tyr	Val	Gly	Gly	Met	Pro	Gly	Lys	Ser	Asn	Val	Ala	Ser		
				165					170					175			
Leu	Arg	Gln	Ala	Pro	Gly	Gln	Asn	Gly	Thr	Ser	Phe	His	Gly	Cys	Ile		
		180						185					190				
Arg	Asn	Leu	Tyr	Ile	Asn	Ser	Glu	Leu	Gln	Asp	Phe	Gln	Lys	Val	Pro		
		195					200					205					
Met	Gln	Thr	Gly	Ile	Leu	Pro	Gly	Cys	Glu	Pro	Cys	His	Lys	Lys	Val		
		210				215					220						
Cys	Ala	His	Gly	Thr	Cys	Gln	Pro	Ser	Ser	Gln	Ala	Gly	Phe	Thr	Cys		
225					230					235					240		
Glu	Cys	Gln	Glu	Gly	Trp	Met	Gly	Pro	Leu	Cys	Asp	Gln	Arg	Thr	Asn		
			245					250					255				
Asp	Pro	Cys	Leu	Gly	Asn	Lys	Cys	Val	His	Gly	Thr	Cys	Leu	Pro	Ile		
			260				265						270				
Asn	Ala	Phe	Ser	Tyr	Ser	Cys	Lys	Cys	Leu	Glu	Gly	His	Gly	Gly	Val		
		275				280						285					
Leu	Cys	Asp	Glu	Glu	Glu	Asp	Leu	Phe	Asn	Pro	Cys	Gln	Ala	Ile	Lys		
		290				295				300							
Cys	Lys	His	Gly	Lys	Cys	Arg	Leu	Ser	Gly	Leu	Gly	Gln	Pro	Tyr	Cys		
305					310					315					320		
Glu	Cys	Ser	Ser	Gly	Tyr	Thr	Gly	Asp	Ser	Cys	Asp	Arg	Glu	Ile	Ser		
				325				330					335				
Cys	Arg	Gly	Glu	Arg	Ile	Arg	Asp	Tyr	Tyr	Gln	Lys	Gln	Gln	Gly	Tyr		
			340				345					350					
Ala	Ala	Cys	Gln	Thr	Thr	Lys	Lys	Val	Ser	Arg	Leu	Glu	Cys	Arg	Gly		
		355				360					365						
Gly	Cys	Ala	Gly	Gly	Gln	Cys	Cys	Gly	Pro	Leu	Arg	Ser	Lys	Arg	Arg		
		370				375				380							
Lys	Tyr	Ser	Phe	Glu	Cys	Thr	Asp	Gly	Ser	Ser	Phe	Val	Asp	Glu	Val		
385					390					395					400		
Glu	Lys	Val	Val	Lys	Cys	Gly	Cys	Thr	Arg	Cys	Val	Ser					
				405				410									

<210> 10864  
 <211> 1391  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS

00322.0.69462960



<222> (144).. (1184)

<400> 10864

```

cttctttctta aaagagaaaac gctgcgcgcgc cgaggtgggc cctgtcttc cagcagctcc 60
gggcctgctc gctaggcccg ggaggcgcag gcgcaggcgc agtgggggtg agggcgcgtg 120
ggggcgcaca gcctctgggtg cacatggctt cctccccggc ggtggacgtg tcctgcaggc 180
ggcgggagaa gcggcggcag ctggacgcgc gccgcagcaa gtccgcacg cgcctgggcg 240
gccacatgga gcagtgggtgc ctctcaagg agcggctggg cttctccctg cactgcagc 300
tcgccaagtt cctgttggac cggtagactt cttcaggctg tgcctctgt gcaggtcctg 360
agcctttgcc tccaaaaggc ctgcagtatc tgggtgcttt gtcagcatcc tcattgagtt 420
ccagagctcc tccacctgca gaagtcaggg tgcagccaca gtcagcagg acccctcaag 480
cggcccagca gactgaggcc ctggccagca ctgggagtca ggcccagtct gctccaaccc 540
cggcctggga tgaggacact gcacaaattg gcccgaagag aattaggaaa gctgccaaaa 600
gagagctgat gccttgtgac ttccctggct gtggaaggat cttctccaac cggcagtatt 660
tgaatcacca caaaaagtac cagcacatcc accagaagtc tttctcctgc ccagagccag 720
cctgtgggaa gtctttcaac tttaggaaac acctgaagga gcacatgaag ctgcacagt 780
acaccgggga ctacatctgt gattctgcg ccgggtcttt ccgcactagc agcaaccttg 840
tcatccacag acgtatccac actggagaaa aaccctgca gtgtgagata tgcgggttta 900
cctgccgcca gaaggcttcc ctgaactggc gccagcgcaa gcatgcagag acggtggctg 960
ccttgcgctt cccctgtgaa ttctgcggca agcgctttga gaagccagac agtgttgag 1020
cccaccgtag caaaagtcac ccagccctgc ttctagcccc tcaagagtca ccagtggtc 1080
ccctagagcc ctgtcccagc atctctgccc ctgggcctct gggatccagc gaggggtcca 1140
ggcctctgca atctcctcag gctccaaccc tgcttctca gcaatgagct ctctccagc 1200
tttggtcttt gggaagccag actccaggga ctgaaaagga gcaacaagga gaggtctgca 1260
ttgagaaatg ccagttgctt ggtccccagg aactaaggcg acagagtgca ggggtggggc 1320
aagactgggc tgtaggggag ctggactact ttagtcttcc taaaggacaa aataaacagt 1380
attttatgca g 1391

```

<210> 10865

<211> 347

<212> PRT

<213> Homo sapiens

<400> 10865

```

Met Ala Ser Ser Pro Ala Val Asp Val Ser Cys Arg Arg Arg Glu Lys
 1          5          10          15
Arg Arg Gln Leu Asp Ala Arg Arg Ser Lys Cys Arg Ile Arg Leu Gly
          20          25          30
Gly His Met Glu Gln Trp Cys Leu Leu Lys Glu Arg Leu Gly Phe Ser
          35          40          45
Leu His Ser Gln Leu Ala Lys Phe Leu Leu Asp Arg Tyr Thr Ser Ser
          50          55          60
Gly Cys Val Leu Cys Ala Gly Pro Glu Pro Leu Pro Pro Lys Gly Leu
          65          70          75          80
Gln Tyr Leu Val Leu Leu Ser Ala Ser Ser Leu Ser Ser Arg Ala Pro
          85          90          95
Pro Pro Ala Glu Val Arg Val Gln Pro Gln Leu Ser Arg Thr Pro Gln

```

092220.69462960

-4331/13211-

				100					105					110			
Ala	Ala	Gln	Gln	Thr	Glu	Ala	Leu	Ala	Ser	Thr	Gly	Ser	Gln	Ala	Gln		
		115					120					125					
Ser	Ala	Pro	Thr	Pro	Ala	Trp	Asp	Glu	Asp	Thr	Ala	Gln	Ile	Gly	Pro		
	130					135					140						
Lys	Arg	Ile	Arg	Lys	Ala	Ala	Lys	Arg	Glu	Leu	Met	Pro	Cys	Asp	Phe		
145					150					155					160		
Pro	Gly	Cys	Gly	Arg	Ile	Phe	Ser	Asn	Arg	Gln	Tyr	Leu	Asn	His	His		
			165					170						175			
Lys	Lys	Tyr	Gln	His	Ile	His	Gln	Lys	Ser	Phe	Ser	Cys	Pro	Glu	Pro		
		180						185					190				
Ala	Cys	Gly	Lys	Ser	Phe	Asn	Phe	Arg	Lys	His	Leu	Lys	Glu	His	Met		
	195						200					205					
Lys	Leu	His	Ser	Asp	Thr	Arg	Asp	Tyr	Ile	Cys	Glu	Phe	Cys	Ala	Arg		
	210					215					220						
Ser	Phe	Arg	Thr	Ser	Ser	Asn	Leu	Val	Ile	His	Arg	Arg	Ile	His	Thr		
225					230					235					240		
Gly	Glu	Lys	Pro	Leu	Gln	Cys	Glu	Ile	Cys	Gly	Phe	Thr	Cys	Arg	Gln		
			245						250					255			
Lys	Ala	Ser	Leu	Asn	Trp	Arg	Gln	Arg	Lys	His	Ala	Glu	Thr	Val	Ala		
	260						265						270				
Ala	Leu	Arg	Phe	Pro	Cys	Glu	Phe	Cys	Gly	Lys	Arg	Phe	Glu	Lys	Pro		
	275						280					285					
Asp	Ser	Val	Ala	Ala	His	Arg	Ser	Lys	Ser	His	Pro	Ala	Leu	Leu	Leu		
	290					295					300						
Ala	Pro	Gln	Glu	Ser	Pro	Ser	Gly	Pro	Leu	Glu	Pro	Cys	Pro	Ser	Ile		
305					310					315					320		
Ser	Ala	Pro	Gly	Pro	Leu	Gly	Ser	Ser	Glu	Gly	Ser	Arg	Pro	Ser	Ala		
			325						330					335			
Ser	Pro	Gln	Ala	Pro	Thr	Leu	Leu	Pro	Gln	Gln							
			340					345									

<210> 10866  
<211> 1634  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (297).. (1463)

<400> 10866  
ccctaagtga gaggaccaac agttccgaca gcgagcgctc cccagatctg ggccacagca 60  
cgagattcc aagaaaggtg gtgtatgacc agctcaatca gatcctggtg tcagatgcag 120  
ccctcccaga aaatgtcatt ctggtgaaca ccaactgactg gcagggccag tatgtggctg 180  
agctgctcca ggaccagcgg aagcctgttg tgtgcacctg ctccacogtg gaggtccagg 240  
ccgtgctgtc cgccctgctc acccgatcc agcgctactg caactgcaac tottccatgc 300

cgaggccagt gaaggtggct gctgtgggag gccagagcta cctgagctcc atcctcaggt 360  
tctttgtcaa gtccctggcc aacatgacct cgcactggct tggctacatg cgcttcctca 420  
tcacccccct cggttctcac cctgtggcca aatacttggg gtcagtcgac agtaaataca 480  
gtagtccctt cctggattct ggttggagag atctgttcag tcgctcggag ccaccagtgt 540  
cagagcaact ggacgtggca gggcgggtga tgcagtacgt caacggggca gccacgacac 600  
accagcttcc cgtggccgaa gccatgctga ctgcccggca taagtccctt gatgaagact 660  
cctatcagaa gtttattccc ttcatgtggc tgggaagggt gggctctggt gaagactctc 720  
cctccacagc aggcgatggg gacgattctc ctgttggtcag ccttactgtg cctccacat 780  
caccaccctc cagctcgggc ctgagccgag acgccacggc caccctccc tcctcccat 840  
ctatgagcag cgccctggcc atcgtgggga gccctaatag cccatatggg gacgtgattg 900  
gcctccaggt ggactactgg ctgggccacc ccggggagcg gaggaggga ggcgacaaga 960  
gggacgccag ctgaagaac accctcaaga gtgtcttcg ctgagtcgag gtgtcccgcc 1020  
tgccccatag tggggaggcc cagctttctg gcaccatggc catgactgtg gtcaccaaag 1080  
aaaagaacaa gaaagtcccc accatcttcc tgagcaagaa accccgagaa aaggagggtg 1140  
attctaagag ccaggtcatt gaaggcatca gccgcctcat ctgttcttcc cctccttag 1200  
gccccagcct gggcccagac ccacctccc agccagggtt cctccagca ggctccttcc 1260  
ctccctgtca cctccctctc accaaccgg ggtctgagcc cctcattcct gaccgtccgt 1320  
gttctcagga gtggttgagg acacagggcc ccagcccagc cctctgcacc cccagcccg 1380  
gccatctgcg cccacagcc cctttggagc ttttctcttgc tctctcact ccttcccaga 1440  
agtttttgca cagaacttca ttttgaaagt gttttcttca ttctccatac ctcccccaag 1500  
ctctcctcca gcccttccca gggctcagcc ctgctgtcct gagcgtctcc tgggccagag 1560  
agaggagatg ggggtgggag ggactgagtt gatgttgggt ttttcattca ataaattggt 1620  
gatttcttac cgac 1634

<210> 10867  
<211> 389  
<212> PRT  
<213> Homo sapiens

<400> 10867  
Met Pro Arg Pro Val Lys Val Ala Ala Val Gly Gly Gln Ser Tyr Leu  
1 5 10 15  
Ser Ser Ile Leu Arg Phe Phe Val Lys Ser Leu Ala Asn Met Thr Ser  
20 25 30  
Asp Trp Leu Gly Tyr Met Arg Phe Leu Ile Ile Pro Leu Gly Ser His  
35 40 45  
Pro Val Ala Lys Tyr Leu Gly Ser Val Asp Ser Lys Tyr Ser Ser Ser  
50 55 60  
Phe Leu Asp Ser Gly Trp Arg Asp Leu Phe Ser Arg Ser Glu Pro Pro  
65 70 75 80  
Val Ser Glu Gln Leu Asp Val Ala Gly Arg Val Met Gln Tyr Val Asn  
85 90 95  
Gly Ala Ala Thr Thr His Gln Leu Pro Val Ala Glu Ala Met Leu Thr  
100 105 110  
Cys Arg His Lys Phe Pro Asp Glu Asp Ser Tyr Gln Lys Phe Ile Pro  
115 120 125  
Phe Ile Gly Val Val Lys Val Gly Leu Val Glu Asp Ser Pro Ser Thr

09629469.072800

-4333/13211-

130		135		140
Ala Gly Asp Gly Asp Asp Ser Pro Val Val Ser Leu Thr Val Pro Ser				
145		150		155
Thr Ser Pro Pro Ser Ser Ser Gly Leu Ser Arg Asp Ala Thr Ala Thr				160
		165		170
Pro Pro Ser Ser Pro Ser Met Ser Ser Ala Leu Ala Ile Val Gly Ser				175
		180		185
Pro Asn Ser Pro Tyr Gly Asp Val Ile Gly Leu Gln Val Asp Tyr Trp				190
		195		200
Leu Gly His Pro Gly Glu Arg Arg Arg Glu Gly Asp Lys Arg Asp Ala				205
210		215		220
Ser Ser Lys Asn Thr Leu Lys Ser Val Phe Arg Ser Val Gln Val Ser				225
225		230		235
Arg Leu Pro His Ser Gly Glu Ala Gln Leu Ser Gly Thr Met Ala Met				240
		245		250
Thr Val Val Thr Lys Glu Lys Asn Lys Lys Val Pro Thr Ile Phe Leu				255
		260		265
Ser Lys Lys Pro Arg Glu Lys Glu Val Asp Ser Lys Ser Gln Val Ile				270
		275		280
Glu Gly Ile Ser Arg Leu Ile Cys Ser Ser Pro Ser Leu Gly Pro Ser				285
290		295		300
Leu Gly Pro Asp Pro Ser Ser Gln Pro Gly Phe Pro Pro Ala Gly Ser				305
305		310		315
Phe Pro Pro Cys His Leu Pro Leu Thr Asn Pro Gly Ser Glu Pro Leu				320
		325		330
Ile Pro Asp Arg Pro Cys Ser Gln Glu Trp Leu Arg Thr Gln Gly Pro				335
		340		345
Ser Pro Ala Leu Cys Thr Pro Gln Pro Gly His Leu Arg Pro Thr Ala				350
		355		360
Pro Leu Glu Leu Phe Ser Cys Pro Leu Thr Pro Ser Gln Lys Phe Leu				365
370		375		380
His Arg Thr Ser Phe				
385				

<210> 10868

<211> 1749.

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (390).. (1739)

<400> 10868

tctgcagcca cgagaagcaa agttgacatt tctggatcac tctccccaga cgcgtcactt 60  
gccacaaagc gggacacggc agtctcgtctg agccagctgt gcagagggac agatggaaga 120  
aagctagaga tgctgcttcg tgggcgctga agttgcagaa cttgggctgg ttttctttct 180

09629469.072800

```

tcccatcccc cctcctcctg acaaaccaca tcttgactca gatggtcgaa agaaaaactc 240
tttcagttat ttgatatttg ggaaccctcc aggagaccat aacttatttt tgagggaggc 300
tccttctctc cctttgctgg gaacacacac acacacacac acacacacac acacacacac 360
acacacacac acacacacag ctgtacacca tgggtggttca ggctgcagtg gctccgaata 420
gatcccaaag acttttactg aaaattcctt atggatctct gagaaggcgc agcgttgaaa 480
ggatgacgga gggccgcca tgtcaagtac atcttcttga tgacaggaag ctggaactcc 540
tagtacagcc caagctgttg gccaaaggagc ttcttgacct tgtggcttct cacttcaatc 600
tgaaggaaaa ggagtacttt ggaatagcat tcacagatga aacggggacac ttaaactggc 660
ttcagctaga tcgaagagta ttggaacatg acttccctaa aaagtcagga cccgtggttt 720
tatacttttg tgtcaggttc tatatagaaa gcatttcata cctgaaggat aatgctacca 780
ttgagctttt ctttctgaac gcgaagtcc gcatttcata ggagcttatt gacgttgaca 840
gcgaagtggg gtttgaatta gcttccctata ttttacagga ggcaaaggga gatttttcta 900
gcaatgaagt tgtgaggagt gacttgaaga agctgccagc ccttcccacc caagccctga 960
aggagcacc ttccctggcc tactgtgaag acagagtcac tgagcactac aagaaactga 1020
acggtcagac aagagggtcaa gcaatcgtaa actacatgag catcgtgggg tctctcccaa 1080
cctacggggg tcactattat gcagtgaagg acaagcaggg cataccatgg tggctggggc 1140
tgagctacaa agggatcttc cagtatgact accatgataa agtgaagcca agaaagatat 1200
tccaatggag acagttggaa aacctgtact tcagagaaaa gaagttttcc gtggaagttc 1260
atgaccacg cagggttcca gtgacaagga ggacgtttgg gcacagcggc attgcagtgc 1320
acacgtggta tgcatgtccg gcattgatca agtccatctg ggctatggcc ataagccaac 1380
accagttcta tctggacaga aagcagagta agtccaaaat ccatgcagca cgcagcctga 1440
gtgagatcgc catcgacctg accgagacgg ggacgctgaa gacctcgaag ctggccaaca 1500
tggttagcaa ggggaagatc atcagcggca gcagcggcag cctgctgtct tcaggtaggc 1560
agaggccagc tggagggacg ccccttgagc atggctggga cccagaggg gaccagggaa 1620
ggtggggaga gctgcagctg gggagactgc agggcaagct gctccaaagc tggctttgct 1680
ttccagacca aggttgggat ccaaatgcga atctgagaaa actgctccca ggaatcaaat 1740
agtggaagg

```

<210> 10869  
 <211> 450  
 <212> PRT  
 <213> Homo sapiens

<400> 10869  
 Met Val Val Gln Ala Ala Val Ala Pro Asn Arg Ser Gln Arg Leu Leu  
 1 5 10 15  
 Leu Lys Ile Pro Tyr Gly Ser Leu Arg Arg Arg Ser Val Glu Arg Met  
 20 25 30  
 Thr Glu Gly Arg Arg Cys Gln Val His Leu Leu Asp Asp Arg Lys Leu  
 35 40 45  
 Glu Leu Leu Val Gln Pro Lys Leu Leu Ala Lys Glu Leu Leu Asp Leu  
 50 55 60  
 Val Ala Ser His Phe Asn Leu Lys Glu Lys Glu Tyr Phe Gly Ile Ala  
 65 70 75 80  
 Phe Thr Asp Glu Thr Gly His Leu Asn Trp Leu Gln Leu Asp Arg Arg  
 85 90 95  
 Val Leu Glu His Asp Phe Pro Lys Lys Ser Gly Pro Val Val Leu Tyr

09629469.072300

-4335/13211-

100 105 110  
Phe Cys Val Arg Phe Tyr Ile Glu Ser Ile Ser Tyr Leu Lys Asp Asn  
115 120 125  
Ala Thr Ile Glu Leu Phe Phe Leu Asn Ala Lys Ser Cys Ile Tyr Lys  
130 135 140  
Glu Leu Ile Asp Val Asp Ser Glu Val Val Phe Glu Leu Ala Ser Tyr  
145 150 155 160  
Ile Leu Gln Glu Ala Lys Gly Asp Phe Ser Ser Asn Glu Val Val Arg  
165 170 175  
Ser Asp Leu Lys Lys Leu Pro Ala Leu Pro Thr Gln Ala Leu Lys Glu  
180 185 190  
His Pro Ser Leu Ala Tyr Cys Glu Asp Arg Val Ile Glu His Tyr Lys  
195 200 205  
Lys Leu Asn Gly Gln Thr Arg Gly Gln Ala Ile Val Asn Tyr Met Ser  
210 215 220  
Ile Val Gly Ser Leu Pro Thr Tyr Gly Val His Tyr Tyr Ala Val Lys  
225 230 235 240  
Asp Lys Gln Gly Ile Pro Trp Trp Leu Gly Leu Ser Tyr Lys Gly Ile  
245 250 255  
Phe Gln Tyr Asp Tyr His Asp Lys Val Lys Pro Arg Lys Ile Phe Gln  
260 265 270  
Trp Arg Gln Leu Glu Asn Leu Tyr Phe Arg Glu Lys Lys Phe Ser Val  
275 280 285  
Glu Val His Asp Pro Arg Arg Ala Ser Val Thr Arg Arg Thr Phe Gly  
290 295 300  
His Ser Gly Ile Ala Val His Thr Trp Tyr Ala Cys Pro Ala Leu Ile  
305 310 315 320  
Lys Ser Ile Trp Ala Met Ala Ile Ser Gln His Gln Phe Tyr Leu Asp  
325 330 335  
Arg Lys Gln Ser Lys Ser Lys Ile His Ala Ala Arg Ser Leu Ser Glu  
340 345 350  
Ile Ala Ile Asp Leu Thr Glu Thr Gly Thr Leu Lys Thr Ser Lys Leu  
355 360 365  
Ala Asn Met Gly Ser Lys Gly Lys Ile Ile Ser Gly Ser Ser Gly Ser  
370 375 380  
Leu Leu Ser Ser Gly Arg Gln Arg Pro Ala Gly Gly Thr Pro Pro Glu  
385 390 395 400  
His Gly Trp Asp Pro Arg Gly Asp Pro Gly Arg Trp Gly Glu Leu Gln  
405 410 415  
Leu Gly Arg Leu Gln Gly Lys Leu Leu Gln Ser Trp Leu Cys Phe Pro  
420 425 430  
Asp Gln Gly Trp Asp Pro Asn Ala Asn Leu Arg Lys Leu Leu Pro Gly  
435 440 445  
Ile Lys  
450

<210> 10870

09620469.072800

<211> 1693  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (596).. (1570)

<400> 10870  
 tttttgtatg caccacgggc ggcggttggtc ggtgcgggag gagggagggg agcttgcggg 60  
 cccgagaggg ggcgacggcg gcggcggttg cctgaggagg cccgagcggc ggcggtggcg 120  
 gcgaaggccg aggcgtctag gtgttttttg aagagctgca gccctcttct cacagatgag 180  
 ctacgaggag atgatgacac tgactgagca gcacctggag tctcagaacg tcaccaaagg 240  
 tgcccggcac aagatagccc tgagcatcca gaagctgcgt gagagacaga gcgtcctcaa 300  
 gtccctagag aaggatgtgc tggaaggcgg gaacctacga aacgctctgc aggagctgca 360  
 gcagatcatc atcactccca tcaaggccta cagtgtcctc caggccaccg tggctgccgc 420  
 caccaccacc cctactgcc aaggatggggc cccgggggaa ccaccgctgc caggtgctga 480  
 gcctccccta gcccacccc gcacagacaa aggcaccgag gccagagccg ggaccatgtg 540  
 acggcgctgg ccctcgccac cgccgtcccc cgaccctggc cccaggcccg gcaccatgat 600  
 gttccgagac caggtgggca tctctgctgg ctggttcaaa ggctggaatg agtgtgagca 660  
 gacagtggcc ctctgttcac ttccgaaacg ggtcaccctg acccaggccc gcttcctgca 720  
 gctctgcctg gagcactcac tggcggactg caatgacatc cacctgctgg agtcggaggc 780  
 caacagtgtc gccatcgtca gccagtggca gcaggagtcc aaagagaagg tgggtgccct 840  
 cctgtgttcc caccctcccc tgcttcagcc aggcacacaa gaggccaaat cggagtacat 900  
 gaggtacttg cagaaagtgc tggcctactc aatcgagagc aatgctttca tcgaggagag 960  
 tcgccagctg ctttcctatg ccctcatcca cccagccacc aactggagg accgcaacgc 1020  
 actggccctc tggctgagcc acctggaaga gcggttggct agtggcttcc gctcccggcc 1080  
 agagccctcc taccattcac gtcaaggctc agatgagtgg gggggccctg cagagctagg 1140  
 ccctggggag gcagggtcag gctggcagga caagccacc cgggaaagtg gacacgtgcc 1200  
 cttccaccca tccagctcag tgccgccagc catcaacagt attgggagca atgcaaacac 1260  
 aggtctcccc tgccaaatcc accctagccc actgaagcgc tccatgtcac tcatccctac 1320  
 aagccccag gtccctggtg agtggccgag tccagaggag cttggggccc gggctgcttt 1380  
 taccacgccc gatcacgcac ctctctcgcc ccagagcagc gtggcctcct ctggcagtga 1440  
 gcagacagag gagcagggtc ccagccggaa caccctccag gaggatggca gtggcatgaa 1500  
 agatgtgccc tcatggctca agagcctccg ttgacacaag tatgcagccc tcttctcaca 1560  
 gaatcagctt tgagtaactg tacagttttt ctgctgttg gagaagactt atttgttggg 1620  
 gtttcacttg tttaatggtc tgggcttatt ttggaaaaaa aaaaaacaaa caaaaaaac 1680  
 gaattctgac ctt 1693

<210> 10871  
<211> 325  
<212> PRT  
<213> Homo sapiens

<400> 10871  
 Met Met Phe Arg Asp Gln Val Gly Ile Leu Ala Gly Trp Phe Lys Gly  
 1 5 10 15

-4337/13211-

Trp	Asn	Glu	Cys	Glu	Gln	Thr	Val	Ala	Leu	Leu	Ser	Leu	Pro	Lys	Arg
		20						25					30		
Val	Thr	Arg	Thr	Gln	Ala	Arg	Phe	Leu	Gln	Leu	Cys	Leu	Glu	His	Ser
		35					40					45			
Leu	Ala	Asp	Cys	Asn	Asp	Ile	His	Leu	Leu	Glu	Ser	Glu	Ala	Asn	Ser
	50					55					60				
Ala	Ala	Ile	Val	Ser	Gln	Trp	Gln	Gln	Glu	Ser	Lys	Glu	Lys	Val	Val
65					70				75						80
Ser	Leu	Leu	Leu	Ser	His	Leu	Pro	Leu	Leu	Gln	Pro	Gly	Asn	Thr	Glu
				85					90					95	
Ala	Lys	Ser	Glu	Tyr	Met	Arg	Leu	Leu	Gln	Lys	Val	Leu	Ala	Tyr	Ser
			100					105					110		
Ile	Glu	Ser	Asn	Ala	Phe	Ile	Glu	Glu	Ser	Arg	Gln	Leu	Ser	Tyr	
	115						120					125			
Ala	Leu	Ile	His	Pro	Ala	Thr	Thr	Leu	Glu	Asp	Arg	Asn	Ala	Leu	Ala
130						135					140				
Leu	Trp	Leu	Ser	His	Leu	Glu	Glu	Arg	Leu	Ala	Ser	Gly	Phe	Arg	Ser
145					150					155					160
Arg	Pro	Glu	Pro	Ser	Tyr	His	Ser	Arg	Gln	Gly	Ser	Asp	Glu	Trp	Gly
				165					170					175	
Gly	Pro	Ala	Glu	Leu	Gly	Pro	Gly	Glu	Ala	Gly	Ser	Gly	Trp	Gln	Asp
			180					185					190		
Lys	Pro	Pro	Arg	Glu	Ser	Gly	His	Val	Pro	Phe	His	Pro	Ser	Ser	Ser
		195					200					205			
Val	Pro	Pro	Ala	Ile	Asn	Ser	Ile	Gly	Ser	Asn	Ala	Asn	Thr	Gly	Leu
210						215					220				
Pro	Cys	Gln	Ile	His	Pro	Ser	Pro	Leu	Lys	Arg	Ser	Met	Ser	Leu	Ile
225					230					235					240
Pro	Thr	Ser	Pro	Gln	Val	Pro	Gly	Glu	Trp	Pro	Ser	Pro	Glu	Glu	Leu
				245					250					255	
Gly	Ala	Arg	Ala	Ala	Phe	Thr	Thr	Pro	Asp	His	Ala	Pro	Leu	Ser	Pro
			260					265					270		
Gln	Ser	Ser	Val	Ala	Ser	Ser	Gly	Ser	Glu	Gln	Thr	Glu	Glu	Gln	Gly
	275						280					285			
Ser	Ser	Arg	Asn	Thr	Phe	Gln	Glu	Asp	Gly	Ser	Gly	Met	Lys	Asp	Val
290						295					300				
Pro	Ser	Trp	Leu	Lys	Ser	Leu	Arg	Leu	His	Lys	Tyr	Ala	Ala	Leu	Phe
305					310					315					320
Ser	Gln	Asn	Gln	Leu											
				325											

<210> 10872

<211> 1679

<212> DNA

<213> Homo sapiens

<400> 10872

008270.69462960



09629469.072800

```

cactccatgc cctgtgaatg aaacagatgg ctttcctgac ctctaataca agcctaccca 60
tattgatctg ttcccttctag tccttagtat gtgctacctc ttcttttctg tgccgaagtg 120
gtgagtagcc aatagttatt tcctctacca gtgggtatgtt actaggcaat tattggaaat 180
agaatgctgc caccoggtag tgataaatct aacattttct gtagaagata taggtggatt 240
agttactccc tggggcaata tggattagtt cctgtgtcct tcaaattgca ctcaccaagc 300
ctgagccatg ctttactgct gaaacatcct agcagagaga agtaagtggc tcaggggtggc 360
cctcttgttg tggacaagca ttcccaggac tctgtgtggt actaaagaaa aggtagccct 420
caaacagtcc tttttattat ttttgatttt attgtcatca ttatcagtat cctccaagtc 480
aagaatccgt aaataatata atgagatgct aaaaacaagt ttgaaaaatg tgagcaaggt 540
ctgtttctag ttttaaaata gccacattt ctcaaataat ttactgtttg gttcagaatt 600
tggaccacta ctaaaaaaga acagatcatt caaacgtgtc ttttgaatat ttctgtcatc 660
tggaaatgcc tgcgcataag ccccatgacg gatgtgcttg gctaaaaaac ctgttgacgt 720
gtcctcagcc ttcagaatag aagagacagc cagtttccca tgattctaag gataaacatc 780
ccccactgga aaaaattatt attagctggc aagtaataat ccaaacatgt acatggatag 840
taaataattct gtgtgtgac ctcataattt tatactccaa aacagtattt taggaggatc 900
aaaattatat ttattaacac acagttgaaa ttgccattct agaactcaaa taacacagga 960
ccaaatttga cagaatcagc tgtggaactt tatcaaaagt ctgaagccag gacctacca 1020
ctggatggtc tgagtcagaa gtctggggag agttccagca ttactatttt tctttttcat 1080
tctctgtgtg attatagtat gcagctagga ctgagtgaga gtaacactaa accgtgatct 1140
ccttgggtgga atgctgtggg tactcctagg agagactctc caaatttgtg aatttatacc 1200
agtgtagtgg gctactcaga atgcaaacag tcacgtaca tgtcacattt cagggaatct 1260
tcagagctga ccagacctgt tgaagacaag gatttcttcc tcttctttga gtcctcttgg 1320
tctaacctgg cacagaattg gtattcacaa atatttgtaa aatggaatgt taattgaagt 1380
acccaagacc ttaggaattg aagataattt aagatttaag agttctgcta aacaactgag 1440
atctcatgat cttaaagtac tttgaaaatt gcaaggggca gacattattc aagaaggaag 1500
gatttcttaa aatacgtcct ttatagtagc ctttgaactt taacatgcag aagaatgagt 1560
ttaggcgggg cacagtgttt caggcctata atctcagcac tttgggaggc aaaggaggga 1620
ggatcatttg agctcagaag ttcaaaacca gcctgagcaa catagcaaga cttatctc 1679

```

<210> 10873  
 <211> 1047  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (3).. (626)

```

<400> 10873
caatggacag gagtgggctc cctgaccttc aaggaagatt tgagctatct gggaaaaaca 60
gacagtatcc actggatgca ttggaacccc aaccagcat tggggatatt aaggacatta 120
aaaaagcagc caagtctatg ctagaccag cacataaatc tcatttccac cctgtgacct 180
caagtttagt attcttgtgt ttcatatttg atgggttaca ccaggcatta ctgagtgttg 240
gtgtgagcaa gaggtctaact actgtggttg ggaatgagaa cgaggaaagg ggtactcctt 300
atgctagcag attcaaagat atgcctaact ttattgccct tgagaagtca tcagttctcc 360
gccactgctg tgaccttttg ataggcattg cggctggatc aagtgataag atttgacca 420
gcagtcacca agttcagaga cgattcaagg caatgatggc atctattgga agactttcac 480

```

-4339/13211-

atggtgagag tgctgatctg ctaatcagct gcaatgcaga atcagccata ggttggatca 540  
gctcaagacc atgggttgga gaattaatgt tcacacttct atttggagac tttgaatccc 600  
ctctacacaa gctacgcaag tcaagttagt tgccaagaaa gcacagatga caacctatta 660  
atgctgtgag aatgtttcta gatcagtga tggatggctc cattgctcta cggggccattg 720  
tgtctgagat cccagtcitt gaggagaaaa aaaacaatgg ttaaaaaggc attggggaaa 780  
tattttgagt ttgggggtgt actttgccac ccattattg gggagctgtc accacgaatg 840  
ttcccaaact tagcaacagc ggcaaaactac tgggccaaga tgagcaaccc cacatttttg 900  
ggatttaaag ctctgatgt tataccagga tcaaccatca cactcccttt gcttcaaagt 960  
gcgtctaccc cgtaagatct tgagggggga gtgttgggtg gaatcataga tccatgcact 1020  
cctaacatga actaattctc attattt 1047

<210> 10874  
<211> 208  
<212> PRT  
<213> Homo sapiens

<400> 10874  
Met Asp Arg Ser Gly Leu Pro Asp Leu Gln Gly Arg Phe Glu Leu Ser  
1 5 10 15  
Gly Lys Asn Arg Gln Tyr Pro Leu Asp Ala Leu Glu Pro Gln Pro Ser  
20 25 30  
Ile Gly Asp Ile Lys Asp Ile Lys Lys Ala Ala Lys Ser Met Leu Asp  
35 40 45  
Pro Ala His Lys Ser His Phe His Pro Val Thr Pro Ser Leu Val Phe  
50 55 60  
Leu Cys Phe Ile Phe Asp Gly Leu His Gln Ala Leu Leu Ser Val Gly  
65 70 75 80  
Val Ser Lys Arg Ser Asn Thr Val Val Gly Asn Glu Asn Glu Glu Arg  
85 90 95  
Gly Thr Pro Tyr Ala Ser Arg Phe Lys Asp Met Pro Asn Phe Ile Ala  
100 105 110  
Leu Glu Lys Ser Ser Val Leu Arg His Cys Cys Asp Leu Leu Ile Gly  
115 120 125  
Ile Ala Ala Gly Ser Ser Asp Lys Ile Cys Thr Ser Ser Leu Gln Val  
130 135 140  
Gln Arg Arg Phe Lys Ala Met Met Ala Ser Ile Gly Arg Leu Ser His  
145 150 155 160  
Gly Glu Ser Ala Asp Leu Leu Ile Ser Cys Asn Ala Glu Ser Ala Ile  
165 170 175  
Gly Trp Ile Ser Ser Arg Pro Trp Val Gly Glu Leu Met Phe Thr Leu  
180 185 190  
Leu Phe Gly Asp Phe Glu Ser Pro Leu His Lys Leu Arg Lys Ser Ser  
195 200 205

<210> 10875  
<211> 1632

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 10875

```
tcatcaatgg atgaatggat tttttaaaat gtgatacata catatatata tacatacata 60
catatatata tatgcacaat ggaataatat tcagccataa aaaataatga aatcttgtca 120
tttgcaacaa catgaataaa cctagagaca ctatgttaag tgaaataaac tgagcatagg 180
acaaatacca cattatctca ttcatatgag gaattttaaa aaattgatgt catagaagta 240
gggagtagaa tactggttgc cagaggttgg agaaagcaga gcggcagggg agatagagat 300
aaacggttgg tcaacaggta caaagtaagc tacacttaga taggaggaac aagttctgtt 360
gttctattgc acagtaggac gactatagtt agtgataatg tatatttcaa aatagctaga 420
agagaggatt tttaatgttt tcaccacaat gaaatgataa tgtttgaggt gaggaatttg 480
ctaattaccc tgatttgatc attacacaat gtatacatgc attgaaacag tatactcctt 540
aagtacatat gattgttatg tcaattaaaa acaaaataaa actaaagaag aaattgctaa 600
gggagtaaat tccaaatggt ctcaccacaa aaataagtat ttgagggtgat ggatatgaca 660
attagctgga ttccattatt ccacattgta ttcataaato ataacatcct gtaccccata 720
aatatataca attataatth gtcaattttac aattttaaaat aaaaattaaa aaagaattga 780
tgthttctgta aataaattag ttaattcaaa acatttttaa aattttttct agtcatttaa 840
atatgttaaa tgthtactgaa attaaaaatt taaatagagt tgggaagttga ggaagtttag 900
gaaataaaaa acataaagag ataaaagaca ggagaaacta ttaacaaaga gaagaggaga 960
ttaagcttaa gaggctcact ttgttaactaa tagaagattt agagaaggcc acagagagaa 1020
ctgagggggag gaaactacca aaaatttaatt gaagaaaatc tcccagaatg gaagaatatt 1080
agtcttcaga ttgaaagtac caacagagtc catgcgaaaa gttgagaaaa tgcccacacc 1140
aagttacctt gttgtgaaat cttggaacgc tagagataaa gagaatcttt ttttaagttt 1200
gtggagaaaa aggagagaga agcatggaag tgggtgaagg gagatgaaga aaacagtaca 1260
cattgaaaga agaggaaaag aagacgatca cagtgcagtc aggcttttta acattatcat 1320
tgcaagctag aagaaatgag aaaatgcctt caaaattctg gaaagtaata ttcaatccaa 1380
accaacatgc agtgaatgac atcccctaga gcttttcggt tttggttcgc atttttaaaa 1440
cactttgaat aaaaatgacc ccctaggggt ttgcagtgca taatctttac aaccatatgc 1500
ggcaactcta ctcaattcag tcaaatttgc agtcacattt gaagacagaa tacagacata 1560
gaaggactca aaatgtacac atccattctt ttctcaggaa ggatatgctc tagaaaagtg 1620
aacagataat cc 1632
```

<210> 10876

<211> 1537

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (22).. (504)

<400> 10876

```
tatagcacag aaggtctttc catggcactg gcgtctttac gaaatctcta cactccaaat 60
ataaagggtca gccgactgct gattttggga ggtgccataa ttaattaccg gacagagggt 120
ttaaataatg ctccaattct atgtgttcag tcccatcttg gttacacaga aatggttagc 180
ctgctgctgg agttcggggc caacgtggat gcctcttctg aaagtggcct gactcccctg 240
```

```

ggatatgctg cagcagcagg gtacctgagc attgtggtgc tgctgtgcaa gaaacggggc 300
aaggtggatc atttggataa gaacgggcag tgtgctttgg ttcattgctg actccgaggt 360
catctggagg ttgtcaagtt ttgtattcag tgtgactgga ccatggccgg ccagcagcaa 420
ggagtattta agaagagcca tgccatccaa caggccctca ttgctgcagc cagcatgggt 480
tatactgagg taagaagtag gcaataggat tgttttttca agctctgtat tgaaggacct 540
aggaaaccag gagaaaagat tgcacgaaga caaaattgcc aaccaaatta atgtgaattc 600
gtgatcgctg ctctgaataa taaggagatt aaactccatg aagcaattta ctcaaattgc 660
aaagtccctc aaattatagg tatagaaagg tgcgagttgg aaaggaccgt ggaaatgata 720
taattattct ccatgttttc ctccctgttt aacagacagt ggccaacaagg ctcaaagaga 780
tgaattattg aggtgtagtc acatggttag ataattgtgg acaggaacag cataacattt 840
agaatctcag aaggaccaga tttgagtccc agcctcgcta ttcattaact ctagcccttg 900
aacaatttac ctatctctta gaagtttagt tcccatcag caaagtgaag ctaataaact 960
cctttataca aggctgttgt aagggatgct tggtaaactg ttaaacatta tacagtttat 1020
ttattaatga taataacaat aatagtggca aatgtaggga attggtagtg tgctaggaaa 1080
tgtttaacaa ccaactgtga agaggggtgt ggggtggaac aggggtgtgt gtttgtgtgt 1140
gcatacgttt attataaatt ttactgatag aatgtgttgc cgtggaatac tacacagccg 1200
taagaagaac aaaatcatgt cctttgcagc aacatagatg caactgaagg ccagtatcct 1260
aagtgagtta acacaggaac agaaaaccaa ataccacatg ttctcattga taagtgggag 1320
ctaaacattg agtacctatg gacataaaga ggcaacagta gacactgggg actactggga 1380
ggggaaaagg aggggaaagg gttgaaaaaa actgttgtta tcctcactac caggtgatgg 1440
gaacttttgt gtcccaaacc tcggcatcat ccagtacacc atgaaacaaa cctgtacatt 1500
cactgccctt gaatctacaa taaaatttga aataatt 1537

```

<210> 10877  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 10877

Met	Ala	Leu	Ala	Ser	Leu	Arg	Asn	Leu	Tyr	Thr	Pro	Asn	Ile	Lys	Val
1				5					10					15	
Ser	Arg	Leu	Leu	Ile	Leu	Gly	Gly	Ala	Asn	Ile	Asn	Tyr	Arg	Thr	Glu
		20						25					30		
Val	Leu	Asn	Asn	Ala	Pro	Ile	Leu	Cys	Val	Gln	Ser	His	Leu	Gly	Tyr
		35					40					45			
Thr	Glu	Met	Val	Ala	Leu	Leu	Leu	Glu	Phe	Gly	Ala	Asn	Val	Asp	Ala
	50					55					60				
Ser	Ser	Glu	Ser	Gly	Leu	Thr	Pro	Leu	Gly	Tyr	Ala	Ala	Ala	Ala	Gly
	65				70					75				80	
Tyr	Leu	Ser	Ile	Val	Val	Leu	Leu	Cys	Lys	Lys	Arg	Ala	Lys	Val	Asp
			85						90					95	
His	Leu	Asp	Lys	Asn	Gly	Gln	Cys	Ala	Leu	Val	His	Ala	Ala	Leu	Arg
		100						105					110		
Gly	His	Leu	Glu	Val	Val	Lys	Phe	Leu	Ile	Gln	Cys	Asp	Trp	Thr	Met
	115						120					125			
Ala	Gly	Gln	Gln	Gln	Gly	Val	Phe	Lys	Lys	Ser	His	Ala	Ile	Gln	Gln
	130					135						140			

09629469.072800

-4342/13211-

Ala Leu Ile Ala Ala Ala Ser Met Gly Tyr Thr Glu Val Arg Ser Arg  
145 150 155 160  
Gln

<210> 10878  
<211> 1513  
<212> DNA  
<213> Homo sapiens

<400> 10878  
aaggatatgg aaaaactgaa caatgccatc agacttgcta attgacattt ataaagtgtt 60  
cctccctcaa atagcagaat atacattcct ttaaaatcct cagggagcat tcagaaaaat 120  
agatgacagc cagagacata aaacaaacct aaaaatgatt aaaagaattg aaataatcaa 180  
aagtagttat cttaccataa tgagatttaa ctagaaatca acaaaagaaa gataattgat 240  
aaatctctaa atactaggaa attaaacaac ctacttctaa gtgatctgtg aatcaaagtc 300  
tcagagaaaag cagaaaatat tttgaagtga acaaaattga aaatgcaata tatcataatt 360  
catatgaagt agctaaatca gggcttagag ggaaatatgg aggattaaac cctcatatta 420  
gaaaagaaaa aaagaactgc aatgagcaat ctaagcttct acctaaagaa actagaaaaa 480  
gaagagcaaa acaagtctaa agcaagcaga aagaaggaat ttataaaga taagagtaga 540  
tatcaatgaa tttgaaaaca atagtggaga aaaccaataa aattaaaaat ctggtttttt 600  
aagtatatca agagctgata aacctctagc cagattgaca aggaaatatg acataaatta 660  
ccattgtaag gcatgaaaga gggcatatca ctatagtccc cacaaaaata taataagcaa 720  
acaccatcaa gagctctgtg cacataaatt caacaatata gatgaaatgg accaaatcct 780  
agaaagaaga ggctgccaaa actcacccca aaatatccct ttatatctca ataaattcaa 840  
tgtataatta gatctttacc aaaaactcaa aaatcaaaac ctaaaaaact acaggtttgg 900  
atggttttcac tggtagaatt ctctgccaaa catttgtgga agaaatgaca tcaattctgt 960  
aagatctttt tcaaaaaaca aaagaggagg caacatttcc caactcgttt tgtgaagcca 1020  
gcattatcct ggttaccaaa ccagacaaag ttagtacagt aaaagaaaac tgcagaccaa 1080  
tgtctcttag gaacatagat gcagaaatcc ttcacaaaat attagtacat tgaattaggc 1140  
aataataaaa ataataacaa gtcatgaccg agtggattta ggcttggaat ataaggcagc 1200  
atttgaaaat cagtcaatgt agggctgggc acagtggctc acagctgtaa tcccagcact 1260  
ttgggaggcc aaggcaggca gatcatgaag tcaagaaatc gagaacatcc tggccaacat 1320  
ggtgaaacct tgtctctact aaaaaataca aaaattagct gagcgtgggtg gcacatgcct 1380  
gtagtcccag ctacgcagga ggctgaggca ggagaattgt ttttaaccag gaggtggagg 1440  
ttgcagtgag ccaagattgc gccactgcac tccagcctgg gcaacagagc gagactgcgt 1500  
ctcaaaaaca aac 1513

<210> 10879  
<211> 1228  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (398)..(1228)

09629469.072300

<400> 10879

```

gcggtgtctgc ggccgagcca tcggctcgcc tcggctcgac tggaggggag gaggaggagc 60
aggccgagcg cattcgcgct ggagcttgcg aggagcgcag ggtggagcgc gccagccggg 120
gtcctcggat ctggcccagg tgaggaattt taaattggaa caagagcaag aaaaaaacia 180
aatcttgtca gaagcactgg agacgctggc cactgaacat catgaattag agcagtctct 240
ggtgaaaggc tctccaccgc ccagcatcct tagcgaggac gaggttctat atgcgctgtc 300
agattccgag tccgaaaggc ccctgagtag attggaagca gtgacagcac gctcctttga 360
agaggaagga gagcatttgg gcagtagaaa acacagaatg tccgaagaaa aagactgttg 420
tggcggagat gctctctcca atggcatcaa gaaacacaga acaagtttgc cttctcctat 480
gttttccaga aatgacttca gtatctggag catcctcaga aaatgtattg gaatggaact 540
atccaagatc acgatgccag ttatatattaa tgagcctctg agcttcctac agcgcctaac 600
tgaatacatg gagcatactt acctcatcca caaggccagt tcaactctctg atcctgttga 660
aaggatgcag tgtgtagctg cgtttgctgt atctgtctgt gcttctcagt gggaacggac 720
tggaaccct ttcaaccac tgctgggaga gacttatgaa ttagtgcgag atgaccttgg 780
atttagactc atctccgaac aggtcagcca tcaccacca atcagtgcac ttcagtctga 840
aggattaaac aatgacttca tctttcatgg ctctatctat cccaaactga aattctgggg 900
gaagagtgtg gaagcagaac ccaaaggaac catcaccttg gagtccttg aacacaatga 960
ggcatataca tggacaaatc ccacctgctg tgtgcataat atcattgttg gtaaactgtg 1020
gatcgaacag tacggcaatg tggaaattat aaaccacaag gctggggaca aatgtgtgtt 1080
gaattttaag ccatgtggcc tttttggtaa ggaattacac aaagttgaag gctacattca 1140
agataaaagc aaaaagaagc tctgtgcctt ctatgggaag tggactgaat gtttatacag 1200
tgttgacctt gccacgttgg acgcttac                                     1228

```

<210> 10880

<211> 277

<212> PRT

<213> Homo sapiens

<400> 10880

```

Met Ser Glu Glu Lys Asp Cys Gly Gly Gly Asp Ala Leu Ser Asn Gly
  1             5             10             15
Ile Lys Lys His Arg Thr Ser Leu Pro Ser Pro Met Phe Ser Arg Asn
          20             25             30
Asp Phe Ser Ile Trp Ser Ile Leu Arg Lys Cys Ile Gly Met Glu Leu
          35             40             45
Ser Lys Ile Thr Met Pro Val Ile Phe Asn Glu Pro Leu Ser Phe Leu
          50             55             60
Gln Arg Leu Thr Glu Tyr Met Glu His Thr Tyr Leu Ile His Lys Ala
          65             70             75             80
Ser Ser Leu Ser Asp Pro Val Glu Arg Met Gln Cys Val Ala Ala Phe
          85             90             95
Ala Val Ser Ala Val Ala Ser Gln Trp Glu Arg Thr Gly Lys Pro Phe
          100             105             110
Asn Pro Leu Leu Gly Glu Thr Tyr Glu Leu Val Arg Asp Leu Gly
          115             120             125
Phe Arg Leu Ile Ser Glu Gln Val Ser His His Pro Pro Ile Ser Ala

```

003240.09462960

130		135		140
Phe His Ala Glu Gly	Leu Asn Asn Asp Phe Ile	Phe His Gly Ser Ile		
145	150	155	160	
Tyr Pro Lys Leu Lys	Phe Trp Gly Lys Ser Val	Glu Ala Glu Pro Lys		
	165	170	175	
Gly Thr Ile Thr	Leu Glu Leu Leu Glu His Asn	Glu Ala Tyr Thr Trp		
	180	185	190	
Thr Asn Pro Thr	Cys Cys Val His Asn Ile Ile	Val Gly Lys Leu Trp		
	195	200	205	
Ile Glu Gln Tyr	Gly Asn Val Glu Ile Ile Asn His	Lys Ala Gly Asp		
210	215	220		
Lys Cys Val Leu	Asn Phe Lys Pro Cys Gly Leu	Phe Gly Lys Glu Leu		
225	230	235	240	
His Lys Val Glu	Gly Tyr Ile Gln Asp Lys Ser	Lys Lys Lys Leu Cys		
	245	250	255	
Ala Leu Tyr Gly	Lys Trp Thr Glu Cys Leu Tyr	Ser Val Asp Pro Ala		
	260	265	270	
Thr Phe Asp Ala	Tyr			
275				

<210> 10881  
 <211> 746  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (40).. (687)

<400> 10881  
 cttcttagcc gtggctgcct cagcacctcg aggatcgaca tggacgctct cgaggactac 60  
 gtttggccgc gggcaacctc ggagcttata ctctcccag tgacgggtct ggagtgcgtg 120  
 ggggaccggc tgttggcggg tgaggggtccc gatgtccttg tgtacagctt ggactttggt 180  
 gggcatctgc ggatgataaa gcgagtgcag aacctgcttg gccactatct tatccatggc 240  
 ttccgggtac ggccagagcc taatggagac cttgacttgg aggccatggt ggctgtgttt 300  
 ggaagcaagg gactccgagt tgtgaaaatt agctggggac agggccactt ctgggagctt 360  
 tggcgctctg gcctgtggaa catgtctgac tggatttggg atgcacgctg gcttgaggga 420  
 aatatagcct tggccctggg ccacaactca gtggtgctat atgaccctgt agtagggtgc 480  
 atcctgcaag aggtgccctg cacagacagg tgcacctct cttcagcctg cctgattgga 540  
 gacgcctgga aggagctgac catagtggca ggtgctgttt ccaaccagot cttggtcttg 600  
 taccagcaa ctgcctttac cctatacctc tctgcacgtc ccaccccggt ttgctgtgtg 660  
 ctacccccca ggatgtgtac cgggtttag taggagctga aatccatgct gagctgtacc 720  
 agaataaaga atagagtgtg gtagtgt 746

<210> 10882  
 <211> 216

09629469 . 072800

-4345/13211-

<212> PRT

<213> Homo sapiens

<400> 10882

Met Asp Ala Leu Glu Asp Tyr Val Trp Pro Arg Ala Thr Ser Glu Leu  
1 5 10 15  
Ile Leu Leu Pro Val Thr Gly Leu Glu Cys Val Gly Asp Arg Leu Leu  
20 25 30  
Ala Gly Glu Gly Pro Asp Val Leu Val Tyr Ser Leu Asp Phe Gly Gly  
35 40 45  
His Leu Arg Met Ile Lys Arg Val Gln Asn Leu Leu Gly His Tyr Leu  
50 55 60  
Ile His Gly Phe Arg Val Arg Pro Glu Pro Asn Gly Asp Leu Asp Leu  
65 70 75 80  
Glu Ala Met Val Ala Val Phe Gly Ser Lys Gly Leu Arg Val Val Lys  
85 90 95  
Ile Ser Trp Gly Gln Gly His Phe Trp Glu Leu Trp Arg Ser Gly Leu  
100 105 110  
Trp Asn Met Ser Asp Trp Ile Trp Asp Ala Arg Trp Leu Glu Gly Asn  
115 120 125  
Ile Ala Leu Ala Leu Gly His Asn Ser Val Val Leu Tyr Asp Pro Val  
130 135 140  
Val Gly Cys Ile Leu Gln Glu Val Pro Cys Thr Asp Arg Cys Thr Leu  
145 150 155 160  
Ser Ser Ala Cys Leu Ile Gly Asp Ala Trp Lys Glu Leu Thr Ile Val  
165 170 175  
Ala Gly Ala Val Ser Asn Gln Leu Leu Val Trp Tyr Pro Ala Thr Ala  
180 185 190  
Phe Thr Leu Tyr Leu Ser Ala Arg Pro Thr Pro Phe Cys Cys Val Leu  
195 200 205  
Thr Pro Arg Met Cys Thr Arg Leu  
210 215

<210> 10883

<211> 1215

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (39).. (1169)

<400> 10883

tttcactgga tgccgtatct ctgaaggata ctctagttat gctgggttggt gacatgtcaa 60  
agccttggac tgctttggat tctttacaga aatgggcaag tgttggttaga gaacatgttg 120  
acaaactgaa aatccctcct gaagaaatga aacaaatgga acaaaagtgt attagagact 180  
tccaagaata tgtagagcca ggagaagact tcccggttc tcccagaga agaaatactg 240

09629469.072300



cgtcacaaga agacaaagat gacagtgtag ttttacctct ggggtgcggat acacttacac 300  
 ataacttggg cattccagta ctagtagttt gcacaaagtg tgatgccatt agtgtatttg 360  
 agaaagaaca tgactacaga gatgaacatt ttgatattat tcagtcacat atccggaagt 420  
 tttgtttaca gtatgggtgca gcacttattt acacttcagt aaaagaaaac aaaaatatag 480  
 acttagtata taaatacatc gttcagaaac tatatggatt tccctataag attcctgctg 540  
 ttgttggtgga aaaggatgca gtattttatt cagcagggtg ggataatgat aagaaaatag 600  
 gaatattaca tgaaaatttt caaacattaa aagcagaaga taattttgaa gacatcataa 660  
 ctaaaccacc tgttcgaaag tttgtacatg agaaggaaat tatggcagaa gatgatcagg 720  
 tgtttcttat gaagctacag tcccttttag caaagcaacc accaactgca gctggaaggc 780  
 ctgtggatgc ctcaccaaga gtcccaggag gctcccccacg aacaccaaat agatctgtat 840  
 catctaattg tgccagcgtg tcaccatttc ctgctgggtc aaaaaaaatt gatccaaaca 900  
 tgaaagctgg agctacaagt gaaggcgttc tggcaaatit cttcaacagt ttgttgagta 960  
 aaaagactgg ctctccagga ggccctggtg tgagtgggtg tagccctgca ggtggggctg 1020  
 gaggtggaag cagtggttta ccaccatcca ccaaaaagtc aggccagaag cctgtcttag 1080  
 atgttcatgc agaactagac agaattacac gaaaaccagt tacagtttct cccacaacac 1140  
 ctacatctcc tacggaagga gaagcttctt gaagatacca aataaagcca tttattctgt 1200  
 tttctgggat aatgt 1215

<210> 10884  
 <211> 377  
 <212> PRT  
 <213> Homo sapiens

<400> 10884  
 Met Leu Val Val Asp Met Ser Lys Pro Trp Thr Ala Leu Asp Ser Leu  
 1 5 10 15  
 Gln Lys Trp Ala Ser Val Val Arg Glu His Val Asp Lys Leu Lys Ile  
 20 25 30  
 Pro Pro Glu Glu Met Lys Gln Met Glu Gln Lys Leu Ile Arg Asp Phe  
 35 40 45  
 Gln Glu Tyr Val Glu Pro Gly Glu Asp Phe Pro Ala Ser Pro Gln Arg  
 50 55 60  
 Arg Asn Thr Ala Ser Gln Glu Asp Lys Asp Asp Ser Val Val Leu Pro  
 65 70 75 80  
 Leu Gly Ala Asp Thr Leu Thr His Asn Leu Gly Ile Pro Val Leu Val  
 85 90 95  
 Val Cys Thr Lys Cys Asp Ala Ile Ser Val Leu Glu Lys Glu His Asp  
 100 105 110  
 Tyr Arg Asp Glu His Phe Asp Phe Ile Gln Ser His Ile Arg Lys Phe  
 115 120 125  
 Cys Leu Gln Tyr Gly Ala Ala Leu Ile Tyr Thr Ser Val Lys Glu Asn  
 130 135 140  
 Lys Asn Ile Asp Leu Val Tyr Lys Tyr Ile Val Gln Lys Leu Tyr Gly  
 145 150 155 160  
 Phe Pro Tyr Lys Ile Pro Ala Val Val Val Glu Lys Asp Ala Val Phe  
 165 170 175  
 Ile Pro Ala Gly Trp Asp Asn Asp Lys Lys Ile Gly Ile Leu His Glu

09629469.02300



tatatacatg	tgtcaacact	tatgtatgta	gtttaaacat	attcacttta	ttatatgcta	960
gttatacatc	aataaagctg	ttaagaatga	tcaggatatgc	aaagaagcaa	ggaaatatga	1020
tccacaacaa	aaagaagaaa	tgacaggaca	atttaattag	cagacaaaaca	tgttaaaaca	1080
tgttatacat	atgctcaaga	atgtaaagga	aaatgtgaaa	atggggagaa	aaaatatatt	1140

<210> 10886  
 <211> 1758  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (176).. (475)

<400> 10886						
gatgatagga	gttaagagag	gactatagaa	aactgggtct	ctaagctgat	gtgtcaagtc	60
acactgtcct	ctgcttatcc	taagcttacc	ttgtctcaaat	ttcttttttt	tttctttttc	120
tttgtttttg	gtttttatatt	tttcttaaat	ttcaaggata	ttccttcttt	tgtaaagtgc	180
acagagtatc	atggctctgt	cgccgaggct	ggagtgcagt	gggtgcagtct	cagggtcactg	240
caacccttgc	cttccagggt	caagcgattc	tcctccctca	gcctcccaag	tagctgggat	300
tacaggcaca	tgccatcatg	cccggctaatt	ttttgtatatt	ttggtagaga	tgggggtttca	360
ccatgttggc	caggctgggtc	tggaactcct	gacctcagggt	gatttgccca	cctcagcctc	420
ccaaaagtgt	gggattacag	gtgtgagcca	ccgtgcccgt	cccaaccagg	cttcttaaat	480
gaattctaat	atagaaacaa	caggagctgc	caggactctc	ttaagggtctg	aacctaggac	540
tgtcacagtg	acatttctgc	catattctgc	tggtcaccaag	gcaagcccaa	attcaaaagg	600
agagaaatag	acctcttaga	gtttcctaatt	aaaaggtaatt	ttcattaaaa	atacaattca	660
taaatttagcc	ctatgtttac	tactgtcttt	tcagctcttt	ttttattcca	tgcattaatt	720
gattcgtcac	cacttggatt	gtgccaccaa	tgtttctatg	acatgatcta	aaaaaaaaaa	780
aaaaaaaaaa	aagggctcag	tagttttcac	ttaaaagaca	aagaggccca	ctgagctatt	840
acagatgtta	gttaggattc	atttacttta	atatggtaga	aagaatgcta	tgataccact	900
ttagtgtatga	acaaaataag	cttaatcaca	tcctaggagc	taagtattct	gacattataa	960
tctcttctct	cagagtccca	tcacagcagt	cttaggattc	aagatctatt	cttgggaaac	1020
attatagaac	cagtgtgtca	tgtacatata	aatgaggga	aatataatgg	ctttggtaatt	1080
cctgtagtta	tccttcttgt	catatactct	ttttttcatt	tttaaaaatt	ggggcaaaat	1140
ttatataaca	taaagttaac	cattctgaag	tgtacaattt	aatggcattt	aatacattca	1200
cagtgttgta	cgactttttt	ttttttgagg	aaaagcatat	ttttaggata	atgtcaaaaac	1260
agattaataa	gatgctaata	agatggccag	acattcactc	agaagtgttt	tttgttttgt	1320
tttggtgaaa	tggtatgaga	gatatgttgc	cctacactta	ggccactgca	ttcccgttta	1380
agtgccagga	ttgtgtcagc	aacaggatgg	cctaaacaat	ctcagtcctg	tctcctgcca	1440
gccccctaaa	tcctccagaa	ttgcaagaat	aggccagggtg	tggtggctca	cacctgtaat	1500
cccaacaactt	tggaaggcca	aggcaggcgg	atcacttgag	gccaggagtt	tgagaccagc	1560
ctggccaaca	tggaacccc	ccatctctac	taaaaatata	aaaattagcc	aggcagggtgt	1620
gggtggtgcat	gccggtaatc	tcagtttctt	gggagggttcg	gggtgggatga	tcgcttgaaac	1680
ctgggaggcg	gaggctgcag	tgagccgaga	tcacgccact	gcactccagc	ctgggcgaca	1740
gaatgagggt	ttttcttt					1758

<210> 10887  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 10887  
 Met Ser Gln Ser Ile Met Ala Leu Ser Pro Arg Leu Glu Cys Asn Gly  
 1 5 10 15  
 Ala Val Ser Gly His Cys Asn Pro Cys Leu Pro Gly Ser Ser Asp Ser  
 20 25 30  
 Pro Pro Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Thr Cys His His  
 35 40 45  
 Ala Arg Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Val  
 50 55 60  
 Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Leu Pro Thr Ser  
 65 70 75 80  
 Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro  
 85 90 95  
 Asn Gln Ala Ser  
 100

<210> 10888  
 <211> 2879  
 <212> DNA  
 <213> Homo sapiens

<400> 10888  
 tagtgcgtgt gctggggcga gcgggagcgg gcgaggatgg gcacaggata gaggcagagc 60  
 caccacgcc gccgcggccc cacgctgggc gacagagcct ccagttcccc ttcaatggtg 120  
 gcgggtcgcc ggagctctga tcgccgggaa cccttgccgc tgctgtcctg cgaccccaag 180  
 caggtataga cacgtgtggc cgtttacgct gtaggacctt cattccact ggctttgaac 240  
 attttgggga cttacaatgc cgccaccgc ggacatcgtc aagggtggca tagaatggcc 300  
 gggcgcctac cccaaactca tggaaattga tcagaaaaaa ccactgtctg caataataaa 360  
 ggaagtctgt gatgggtggt ctcttgccaa ccatgaatat tttgcactcc agcatgccga 420  
 tagttcaaac ttctatatca cagaaaagaa ccgcaatgag ataaaaaatg gcactatcct 480  
 tcgattaacc acatctccag taagttgatc ttagcttctg acttcagca aactctttgc 540  
 tctgcgtttc tgctatatgt gattgtggga tattaatttt tgaggttgac tttagtgcaa 600  
 agcaaaaaggc ttccagaatg tcctgacatg cagattctgg attagcagga atgcccctcc 660  
 gtagatttcc cactgcagag gaggaagacc ttattccagg cgaagggcaa gcttgtctaa 720  
 cctgcggccc aggatagctt tgaattcaca aattcgtaaa ctttctcaaa acattatgag 780  
 ttgttctgta tttattttag ttcatcagct atcgttagcg tattttatgt gtggcccaag 840  
 acattcttct tcttcctgtg gccagggaa gccaaaagat tggacacttc tgctttaaga 900  
 tttgagtttg gaggtcatct taacaacttc cgtgttacag ctgggatcac tcacctgtac 960  
 caattggttt taccaccta ctcacacatc cacctaattgc catctgagca aattcagaca 1020  
 acaaacaaag caaacaaaac caaagtcagt tactttcctt taaagtcggt tactttcctt 1080  
 taaagtcagt gtggctgggc gcggtggctc atgcctgtaa tcccagcact ttgggaggcc 1140  
 gaggcaggtg gatcaggagg tcaggagatc aagaccatct tggctaacac agtgaaacct 1200

09629469.072300

tgtctctact	aaaaatacaa	aaaattagcc	gggcgtgggtg	gtggacgcct	gtagtcccag	1260
ctactcggga	ggctaaggca	ggagaatggc	gtgaaaccta	ataggtggag	cttgcaagtga	1320
gcagaggtag	tgccactgca	ctccagcctg	ggtgagagag	tgagactcca	tctcaaaaaa	1380
aaaaaagaaa	aaaaaagaaa	aagtcagtgt	gtgtgtgtgt	gtgtgtgtct	gtgtgtgtgt	1440
gtgtgtgtga	gagagagaga	gagagtttaa	gtattttgta	gctttaatgg	gttattatga	1500
caattcataa	aaataattta	gaaatattga	ccacttcact	gatccattga	cagctgattc	1560
tacataagaa	ctttagagtc	ttctgaatta	aagctgctaa	acaagacgct	acagtatatt	1620
tagactattg	tagctgatga	tgtctctctt	cttggctctt	cctacttgct	tggagatact	1680
ttaggtagta	acattagcat	atttaactat	attattttac	agtgcatctc	attgctttcc	1740
taaaaaatta	tctgccccaa	atacaccaag	tgttactatt	ttcactctgc	atatgtgatg	1800
aaaactgtgt	ctaactatca	ttttcagttt	ccactgaagc	catgtggtag	actaaaaata	1860
aatttaaaaa	ttgggaaaag	catctggcta	aaattaagct	gtgggtactg	taactaccat	1920
aaatccttat	tgttgaaaat	tacattagtg	tggcttagaa	actcctaaac	attttgccca	1980
ataacatcct	gaacctaaaa	acagtgatga	gctcaatgga	gtgagtcgct	acagttggct	2040
gaactgtctt	tgatgcctgc	tttgctactt	aatggagatt	ataatctact	catttttcag	2100
tggctacatg	atgagctgag	gcgttttcgt	ctgactttgc	attggctctc	ttactcaagt	2160
cagcatgaat	gaatgttaat	ttgaccttta	caccattggt	ttatgtgttt	ttttagtatt	2220
ctgattatcc	tgctaaaagt	catcatctgc	ttgctggaca	gaaaaagtag	accttgcctt	2280
ttatttcatt	ttagagtcct	aaagacagct	ttttaatcaa	agccttctct	aagccaaaga	2340
aggagttagt	ttcatttttt	tactgctgtg	gatttatgaa	caaaaattcc	gcaatctaag	2400
tcactccttg	agagaaggct	tagatgttag	gcagagtga	gtttttcagc	atcccaaaag	2460
aaacttagcg	tgacttgtca	tcaggaagaa	tggaaattgt	gttcttgaga	taatgatcct	2520
cacattccca	gctcagtga	tggaaagatg	tgaagccag	tgtaagaggc	actattaaaa	2580
gatgggagca	gccgggtgca	gtggctcacg	cctgtaatcc	cagcactttg	ggaggccgag	2640
gcaggcggat	cacgaggtca	ggagatcaag	accatcctgg	ctaacacggt	gtaaaccccg	2700
tctctactaa	aaatacaaaa	aaaattagcc	aggcgtgggtg	gcaggcgcct	gtagtcccag	2760
ctactcggga	ggctgacgca	ggagaatggc	gtgaaccag	gaggtggagc	ttacagttag	2820
cagagatgac	gccactgcac	tccagcctgg	gcaacagagt	gagactatgt	ctctgtctc	2879

<210> 10889  
 <211> 1953  
 <212> DNA  
 <213> Homo sapiens

gctttaatga	tttatggcaa	actcatacta	gccttgatca	gagaggtgac	cctggcagtt	60
attgagcatt	aactctggag	gactgacgcc	actgagtcct	tctacacact	gtaatttagt	120
gttcctatcc	aagatggcca	ctaaattgca	cttcttctat	tttcaccctc	tggagaatgg	180
taaaaagcat	gatttgcaaa	tattgtcaag	tccaaagtgt	gtttctaaac	tactaagcta	240
gccaaatgca	tctctatatg	ttacaatgtt	ctgcagatgt	gaaaaaatcc	ttcccgggtt	300
tatgaaaagt	agaatgatat	gcactcttag	ctgcctctgg	catccggcac	gtcacacagt	360
gtggctcagtc	cagtcaggct	gcccagacca	cagattccca	gcggcttcat	ttgtcagaca	420
agctgacagg	tggttggtcag	gaaaatactg	atcaagttgt	ttttgttgtt	gttgttttga	480
gacagggtct	cactctgtca	cccaggctgg	agtgcagttg	tgcgatcttg	gtcactaca	540
acctctgcct	cccaggttca	agcgattctc	ctccctcagc	ctcccgagta	gttgggatta	600
caggtgcccc	cgacgacacc	cagataatgt	ttgtattttt	gtagagacgg	tttcaccatg	660
ttggccaggc	tggctctgaa	ctcaagtgat	ccaccgcct	cggcctccca	aagtgtctgg	720

attacaggca	tgagccactg	cactggcctt	caagatgtta	aaagaaagta	ttattgtcaa	780
tgactgagta	tttataagga	cagaaattcc	tgaaattact	ccgttgatgc	tcctggtcct	840
gaggcctcct	ttagagtacg	ggggagcctt	gatatagaag	gccatggagg	gaagaatcag	900
cagagcagca	tctccaagca	tcagcatctg	ggttccagga	aaaggtgcac	gcactttgtg	960
ctggtagcac	ctgcgtcaga	ttcccaagat	gctctgaaac	agaagcattt	actggagtaa	1020
aatactgcct	tacaggctgt	gcacagtggg	tcacgcctgt	aatcccagca	tttagggagg	1080
ccaaggcggg	cagatcacct	gaggctggga	gttcgagacc	atcctggcca	acatggtgaa	1140
accccatctc	tactaaaact	acaaaattca	gctgggcgtg	gtggcacacg	ccaggagtcc	1200
cagctactca	ggagtctgag	gcacaagaat	cgcttgaacc	cgggtggcag	aggttgagct	1260
gagctgagat	ggtaccactg	cactccagcc	tgggtgacag	agcaagactt	tgtctcaaaa	1320
aaataaatac	tgcccttaca	aggagagggc	aaaatagagt	atttctgatg	ctgactgaca	1380
atgcaagtga	catgaaaata	gccccatga	ttcaactcta	ggccagcaac	tcttattact	1440
atgcctgtga	actctttggg	aaacttacaa	atataaattc	ctacatccta	ctctggtagt	1500
cagctttgtt	tggcttaggg	tgggtccagg	actcctcact	tttagtaatt	gtccctgccg	1560
attctttttt	ttaaataatg	gctttattgg	gatataattc	acttaccata	aaattgactc	1620
tcataaagca	tataatttag	tggtttctag	tatactgact	gtgttgtgta	acaaccacca	1680
ctctataatt	ttagaacatt	tccatcatcc	tgcccccaaa	atccatacct	attagcagcc	1740
tggccaacgt	ggcaaaaccc	caaaacccca	tctctacaaa	aaaatacaaa	aaaaaaaaata	1800
gccggacagg	gtggtgcgct	cttgccctcag	tcacagctag	ctgaggggct	gaggcaggat	1860
tgcttgaacc	aggaaggttg	agactgcagt	cagccaagat	tgtgccactg	cactctggcc	1920
tgggcgacag	agcgaggctc	cgtctcaaaa	aag			1953

<210> 10890

<211> 2719

<212> DNA

<213> Homo sapiens

<400> 10890

agatagcatg	tgtaattaat	ttttaatgca	gtgctggatg	cagcgctttc	aagcagttag	60
tggatgtgaa	gaagcagcac	tggccaagga	catcagagac	ctcagagcaa	ggcagccccg	120
ttctccttta	aagggactcg	gaaagtggca	gaggaggcct	gcattgccct	ctgtgtggag	180
cggactggcc	cagaaatggg	ttcttctcgg	gtgacctgag	gtcaagtcag	tctataacaa	240
tctaagacca	gggatcccaa	gagatcatct	cctccaacct	cttcattata	taaatgggga	300
aaccaaggca	gagagtgggg	atgaagccat	gacacatggg	tggcagagct	gactcatacc	360
tgggtctgcc	cactaggcca	tactacctct	cttgagtttt	tattgaaaac	cagaaaagga	420
agttcgtcgc	ccagtggaag	ccacttaaag	attgatttct	gcctgaccat	gaggcttggg	480
gtgaaccctg	caatgagatt	ggtagcaggt	agagctctga	tgttgaggag	ccccacgttg	540
ggtgccttgg	acttcagctc	tgctatctgc	agtgggagcc	caccagacac	atcctgggtt	600
tgagactctg	gggttgtgct	ttgacagctg	gctgccctgt	ccctgtgggg	ctctgtggca	660
tggatgtgtg	tttgaagtta	aatgtcattg	tggaccogtg	ttagactgca	ggcattgttg	720
gaagctctcg	agatggggcc	atcctcggtc	cttcccttgc	agtgaatggg	agtgagtatg	780
tgatcccagg	ctagccactt	acttcctctc	tccaatcttc	agtgtcccca	cctgtaaaat	840
ggggacactg	aagtacttgc	ttaccatccc	tctactggca	ggtcccatga	acagctacca	900
tctgggcgtg	gccacagccc	atgaccagca	cctgggggaa	tcagagggaa	aaggccggtg	960
ggaagggaag	gagggagaaa	gctgagatgc	cggaaagcct	tttgagactc	tggccttggg	1020
taatcggcac	cccagtgacg	acttagctct	tggaaagcca	cttgccctggg	agagtttctt	1080
agtgtgaatg	aaggcagagg	aagggccaac	atcatcagtg	ttcctggggc	ttgccactgt	1140

09629469.072800

ttgctaaagg	gccggctcag	tcctaggcat	gacatctcat	cgttgtaacg	ctcccaagaa	1200
gaggcactcc	cccacccttt	tgcttatgag	gatatggggg	ctcagagagg	ccacacaacc	1260
caccaggggt	cacacagcac	acaaatagca	gaacttggac	agagagtctc	aaaacagaga	1320
ttcagactca	ggtctggcca	gcctcccago	tgtacttggg	gctctcccgt	ctggcttccc	1380
actgggctgt	agtggacaac	agagaaggag	ctgctggtag	aaaaccaa	caaactctga	1440
tatggtacct	gggagggtcc	tgaaggctct	ccttcattgca	ctggtcatcc	ttgtgccaga	1500
ccctgggctg	gactgaggga	tcgggaaatg	ggcatgacgg	ggtccttgcc	ctagagggaac	1560
tcaccgtggt	gggggtgccc	atggaggggc	ttctcaactca	gtggatgtga	aatgcatgtc	1620
cccatggcgc	ctttctctgt	ttgaaaaaaa	tgaatcaatt	ggctgctgct	cgggtgctcc	1680
ctcacttatt	gccatggtgc	agctcaagag	cagatctcag	gatggagagg	tgtcccacct	1740
gaggacagct	tgtccttgtg	gtcgcatatg	tgagagggtg	gggtacctt	ctgtgaggat	1800
ttttacctga	atgaagcaca	agtgggtgcct	gactgcattg	gaatccacgt	gattattggc	1860
gtgtttttga	ctctcatttt	atccagtggg	gcattggggc	catggctggt	ccataaccgc	1920
atgttatgtg	gaagaagcga	gagagtaatg	ggttttccat	gaaagggtgt	gctgtttctg	1980
gaaatggggc	atacatatgc	tcctcctcat	ggagcagcgc	cgtattaaac	agaattgtgt	2040
gaattgaagg	tcacctggac	cactcttggg	aaatgctccc	gaccccatg	gggttccttc	2100
cagagaattt	gtgttctctg	tacctgagat	caaatgtgtg	tctaagcaat	tctggccctt	2160
ggctcccacc	accctaccct	ctccacaaaa	taatagacat	taggggaggt	aagggaacag	2220
aagaggcttc	tttgacagata	ttatatTTTT	aaaaaatggg	tctatgtaat	aagcagcagc	2280
taaggagaca	gaaagacagt	agatgaagag	agtgccaata	tcttccatgg	ggaaaaatga	2340
atgaactgaa	agagaatatt	atTTTTctag	aatacagaaa	gctgtcctct	cacagatcag	2400
ctggaattcc	aagggtggatt	atggacttct	tctaactccc	attgatagtg	cttcttacca	2460
ggtgaaggga	agggtacttt	tttctctaaag	gagaaaaaag	ctttcagaca	aagctcgtac	2520
caacccttga	actgcaaatt	tgctcaagtg	accgtgcata	cttatattcc	taatttaa	2580
gattatttat	gtcaaacgct	cattgtgaaa	cttgaaaatg	ttgtattaca	ttacatcaaa	2640
taaagtttac	ttgtagcaga	cagaaagaga	gaaagagaaa	gaaagaaagg	aaagaaagga	2700
aggaaagaag	gaaagaaag					2719

<210> 10891  
 <211> 1692  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (137)..(1543)

<400> 10891						
agtgttccgc	gtccgggggt	ttgtgggagt	tgccttgacc	tgcagctccg	ccaccgcgga	60
ccgccttct	gccctcagca	gcagacgctc	tgtcccgccc	gggcagctct	gcgaggcagc	120
ggctggagag	ggaaccatgg	ggactgtgca	cgcccgaggt	ttggagcctc	ttccatcaag	180
tggacctgat	tttggaggat	taggagaaga	agctgaattt	gttgaagtgt	agcctgaagc	240
taaacaggaa	attcttgaaa	acaaagatgt	ggttggttcaa	catgttcatt	ttgatggact	300
tgggaaggact	aaagatgata	tcattcattt	tgaatttgga	gatgttttca	aggccaaaaa	360
cctaattgag	gtaatgcgga	aattctcatga	agcccggtgaa	aaattgctcc	gtcttggaat	420
ttttagacaa	gtggatgttt	tgattgacac	atgtcaaggt	gatggcgcac	ttccaaatgg	480
gtagacgtt	acctttgaag	taactgaatt	gaggagatta	acgggcagtt	ataacacat	540

```

ggttggaac aatgaaggca gtatggtact tggcctcaag cttcctaate ttcttggtcg 600
tgcagaaaaa gtgacctttc agttttccta tggaaacaaaa gaaacttcgt atggcctgtc 660
cttcttcaaa ccacggcccg gaaacttcga aagaaatttc tctgtaaact tatataaagt 720
tactggacag ttcccttgga gctcactgcg ggagacggac agaggaatgt cagctgagta 780
cagttttccc atatggaaga ccagccacac tgtcaagtgg gaaggcgtat ggcgagaact 840
gggctgcctc tcaaggacgg cgtcatttgc tgttcgaaaa gaaagcggac attcactgaa 900
atcatctctt tcgcatgcca tggatcatga ttctcggaat tcttccatct taccaaggag 960
aggtgctttg ctgaaagtta accaggaact ggcaggctac actggcgggg atgtgagctt 1020
catcaaagaa gattttgaac ttcagttgaa caagcaactc atatttgatt cagttttttc 1080
agcgtctttc tggggcggaa tgttggtacc catttggtgat aagccgtcaa gcattgctga 1140
taggttttac ctcgggggac ccacaagcgt ccgcggattc agcatgcaca gcacggggcc 1200
acagagcgaa ggggactacc taggtggaga agcgtactgg gccggcggcc tgcacctcta 1260
caccacatta cctttcggc caggccaggg tggctttgga gaacttttcc gaacacactt 1320
ctttctcaac gcaggaacac tctgcaacct caactatggg gagggcccca aagctcatat 1380
tcgtaagctg gctgagtga tccgctggtc gtacggggcc gggattgtcc tcaggcttgg 1440
caacatcgct cggttggaac ttaattactg cgtccccatg ggagtagaca caggcgacag 1500
gatatgtgat gggtccagt ttggagctgg gataaggttc ctgtagccga caccctaca 1560
ggagaagctc tgggactggg gcagcagcaa ggcccccatt ccacacaccg tctctcgagg 1620
aaacgcgggt cagcgattct ttgactgcgg accctgtggg aaaccccgtc aataaatgtt 1680
aaagacacac tc 1692

```

<210> 10892  
 <211> 469  
 <212> PRT  
 <213> Homo sapiens

<400> 10892

Met	Gly	Thr	Val	His	Ala	Arg	Ser	Leu	Glu	Pro	Leu	Pro	Ser	Ser	Gly
1				5				10					15		
Pro	Asp	Phe	Gly	Gly	Leu	Gly	Glu	Glu	Ala	Glu	Phe	Val	Glu	Val	Glu
			20					25					30		
Pro	Glu	Ala	Lys	Gln	Glu	Ile	Leu	Glu	Asn	Lys	Asp	Val	Val	Val	Gln
			35				40					45			
His	Val	His	Phe	Asp	Gly	Leu	Gly	Arg	Thr	Lys	Asp	Asp	Ile	Ile	Ile
	50				55						60				
Cys	Glu	Ile	Gly	Asp	Val	Phe	Lys	Ala	Lys	Asn	Leu	Ile	Glu	Val	Met
65				70						75					80
Arg	Lys	Ser	His	Glu	Ala	Arg	Glu	Lys	Leu	Leu	Arg	Leu	Gly	Ile	Phe
			85					90					95		
Arg	Gln	Val	Asp	Val	Leu	Ile	Asp	Thr	Cys	Gln	Gly	Asp	Gly	Ala	Leu
			100				105					110			
Pro	Asn	Gly	Leu	Asp	Val	Thr	Phe	Glu	Val	Thr	Glu	Leu	Arg	Arg	Leu
	115					120					125				
Thr	Gly	Ser	Tyr	Asn	Thr	Met	Val	Gly	Asn	Asn	Glu	Gly	Ser	Met	Val
	130				135						140				
Leu	Gly	Leu	Lys	Leu	Pro	Asn	Leu	Leu	Gly	Arg	Ala	Glu	Lys	Val	Thr
145				150					155						160

09629469-072800



-4354/13211-

Phe Gln Phe Ser Tyr Gly Thr Lys Glu Thr Ser Tyr Gly Leu Ser Phe  
 165 170 175  
 Phe Lys Pro Arg Pro Gly Asn Phe Glu Arg Asn Phe Ser Val Asn Leu  
 180 185 190  
 Tyr Lys Val Thr Gly Gln Phe Pro Trp Ser Ser Leu Arg Glu Thr Asp  
 195 200 205  
 Arg Gly Met Ser Ala Glu Tyr Ser Phe Pro Ile Trp Lys Thr Ser His  
 210 215 220  
 Thr Val Lys Trp Glu Gly Val Trp Arg Glu Leu Gly Cys Leu Ser Arg  
 225 230 235 240  
 Thr Ala Ser Phe Ala Val Arg Lys Glu Ser Gly His Ser Leu Lys Ser  
 245 250 255  
 Ser Leu Ser His Ala Met Val Ile Asp Ser Arg Asn Ser Ser Ile Leu  
 260 265 270  
 Pro Arg Arg Gly Ala Leu Leu Lys Val Asn Gln Glu Leu Ala Gly Tyr  
 275 280 285  
 Thr Gly Gly Asp Val Ser Phe Ile Lys Glu Asp Phe Glu Leu Gln Leu  
 290 295 300  
 Asn Lys Gln Leu Ile Phe Asp Ser Val Phe Ser Ala Ser Phe Trp Gly  
 305 310 315 320  
 Gly Met Leu Val Pro Ile Gly Asp Lys Pro Ser Ser Ile Ala Asp Arg  
 325 330 335  
 Phe Tyr Leu Gly Gly Pro Thr Ser Val Arg Gly Phe Ser Met His Ser  
 340 345 350  
 Ile Gly Pro Gln Ser Glu Gly Asp Tyr Leu Gly Gly Glu Ala Tyr Trp  
 355 360 365  
 Ala Gly Gly Leu His Leu Tyr Thr Pro Leu Pro Phe Arg Pro Gly Gln  
 370 375 380  
 Gly Gly Phe Gly Glu Leu Phe Arg Thr His Phe Phe Leu Asn Ala Gly  
 385 390 395 400  
 Asn Leu Cys Asn Leu Asn Tyr Gly Glu Gly Pro Lys Ala His Ile Arg  
 405 410 415  
 Lys Leu Ala Glu Cys Ile Arg Trp Ser Tyr Gly Ala Gly Ile Val Leu  
 420 425 430  
 Arg Leu Gly Asn Ile Ala Arg Leu Glu Leu Asn Tyr Cys Val Pro Met  
 435 440 445  
 Gly Val Gln Thr Gly Asp Arg Ile Cys Asp Gly Val Gln Phe Gly Ala  
 450 455 460  
 Gly Ile Arg Phe Leu  
 465

<210> 10893

<211> 2148

<212> DNA

<213> Homo sapiens

<220>

09629469.072800

<221> CDS  
<222> (24).. (1211)

<400> 10893

```

gctaattgttt tggccgcttc aagatggcgg tgcaggagtc ggccggctcag ttgtccatga 60
ccctgaaggt ccaggagtac ccgacctca aggtgcccta cgagacgctg aacaaacgct 120
ttcgcgccgc tcagaagaac attgaccggg agaccagcca cgtcaccatg gtggtggccg 180
agctggagaa gacgttgagc ggctgccccg ccgtggactc cgtggtcagc ctgctggacg 240
gcgtgggtgga gaagctcagc gtcctcaaga ggaaggcggg ggaatccatc caggccgagg 300
acgagagcgc caagctgtgc aagcgcggga tcgagcacct caaagagcat agcagcgacc 360
agcccgccgc ggccagcgtg tggaagagga ggccgatgga tcgatgatg gtggagcacc 420
tgctgcgttg cggctactac aacacggctg tcaagctggc gcgccagagc ggcatcgagg 480
acctagttaa tattgagatg ttctgacgg ccaaaggagt ggaggagtcc ctggagaggc 540
gtgagacggc cacctgcctg gcctgggtgc atgacaacaa gtcccggctc cggaagatga 600
agagctgcct ggagttcagc ctcaaatcc aggagttcat tgaactcatc cggcagaata 660
agagactgga cgtgtgaga catgcaagaa agcacttcag ccaagcagaa gggagccagc 720
tggaacgagg gcgccaggcc atgggcatgc tggccttccc gcccgacacg cacatctccc 780
cgtacaagga ccttctggac cctgcacggg ggccgatgct gatccagcag ttccggtacg 840
acaactaccg actacaccag ctgggaaaca attctgtgtt caccctcacc ctgcaggctg 900
gcctctcagc catcaagaca ccacagtgtt acaaggagga cggcagctcc aagagccctg 960
actgccctgt gtgcagccgc tccctgaaca agctggcgca gccctgccc atggccact 1020
gtgccaactc ccgcctggtc tgcaagattt ctggcgacgt gatgaacgag aacaatccgc 1080
ccatgatgct gccaacggc tacgtctacg gctacaattc tctgctttct atccgtcaag 1140
atgataaagt cgtgtgcccg agaaccaaaag aagtcttcca cttctcaca gccgagaagg 1200
tgtacatcat gtaggcccc a cgtcgtgaag cgcacgcctc ggggacggg tgcagtgggc 1260
ggggaggcca cgccttcctc ctgtcccacg ctccagcctg ccgcggcgtt tctgtttctt 1320
gcgaccaaag atccgtgagc aacgataaat actcttagga agagagaaaa taaggtttca 1380
taagtttgta cttgaaaaca tttggattgg taggattttg taacacgtca accatttgat 1440
gcttctgaaa agtactttca acttgccaag gaaactcttc tttaaagact gacctaaaca 1500
ccgagggaaa cttagaacg tttaaaatat aggagtccgt gatttccctg tgttttcagt 1560
ttctttcctt ctgtgaacga tgagacttgg agaacgggct ggtccttcac cacttcctgt 1620
tgccctggc ctggccgggg aaggtggcag cggcaccgga ctgacctgca gtgaccgcg 1680
atgccgcgcc acgagggaca cttatggctt cattcgagag ctgctgccga aacgcctggc 1740
gccgccaccg tcgggggctg gcttcgagga cgcgcgcctg cctcgcgggt cgtgtccgcg 1800
ggactgtgtt cgtacgtgca tagtttcgat atcacatgc ggggctgtgt tcgtagctgc 1860
gtcgtttcga tatcacacc tctgtgtgcc gccttacttc ctgcttcgag aatgtataac 1920
gtggaaaatc acgggacca atttctgcag aggccttgcc ggatgggttc ataactgtag 1980
agtctaattg ctatccatta cagaaattaa tcgttcagtt gaaagaagta ctgatgactt 2040
ttcaaaaaca atgaaccac gtagctgaca gagaaccgta tcgtagaggt ttgtagttag 2100
tgcttatttt tgcattgtga tgttgactag ctaataaact gtaaatgt 2148

```

<210> 10894  
<211> 396  
<212> PRT  
<213> Homo sapiens

<400> 10894

Met	Ala	Val	Gln	Glu	Ser	Ala	Ala	Gln	Leu	Ser	Met	Thr	Leu	Lys	Val
1				5				10						15	
Gln	Glu	Tyr	Pro	Thr	Leu	Lys	Val	Pro	Tyr	Glu	Thr	Leu	Asn	Lys	Arg
			20					25					30		
Phe	Arg	Ala	Ala	Gln	Lys	Asn	Ile	Asp	Arg	Glu	Thr	Ser	His	Val	Thr
		35					40					45			
Met	Val	Val	Ala	Glu	Leu	Glu	Lys	Thr	Leu	Ser	Gly	Cys	Pro	Ala	Val
	50					55					60				
Asp	Ser	Val	Val	Ser	Leu	Leu	Asp	Gly	Val	Val	Glu	Lys	Leu	Ser	Val
65					70					75					80
Leu	Lys	Arg	Lys	Ala	Val	Glu	Ser	Ile	Gln	Ala	Glu	Asp	Glu	Ser	Ala
				85					90					95	
Lys	Leu	Cys	Lys	Arg	Arg	Ile	Glu	His	Leu	Lys	Glu	His	Ser	Ser	Asp
			100					105					110		
Gln	Pro	Ala	Ala	Ala	Ser	Val	Trp	Lys	Arg	Arg	Arg	Met	Asp	Arg	Met
		115					120					125			
Met	Val	Glu	His	Leu	Leu	Arg	Cys	Gly	Tyr	Tyr	Asn	Thr	Ala	Val	Lys
	130					135					140				
Leu	Ala	Arg	Gln	Ser	Gly	Ile	Glu	Asp	Leu	Val	Asn	Ile	Glu	Met	Phe
145					150					155					160
Leu	Thr	Ala	Lys	Glu	Val	Glu	Glu	Ser	Leu	Glu	Arg	Arg	Glu	Thr	Ala
				165					170					175	
Thr	Cys	Leu	Ala	Trp	Cys	His	Asp	Asn	Lys	Ser	Arg	Leu	Arg	Lys	Met
			180					185					190		
Lys	Ser	Cys	Leu	Glu	Phe	Ser	Leu	Arg	Ile	Gln	Glu	Phe	Ile	Glu	Leu
		195					200					205			
Ile	Arg	Gln	Asn	Lys	Arg	Leu	Asp	Ala	Val	Arg	His	Ala	Arg	Lys	His
	210					215					220				
Phe	Ser	Gln	Ala	Glu	Gly	Ser	Gln	Leu	Asp	Glu	Val	Arg	Gln	Ala	Met
225					230					235					240
Gly	Met	Leu	Ala	Phe	Pro	Pro	Asp	Thr	His	Ile	Ser	Pro	Tyr	Lys	Asp
				245					250					255	
Leu	Leu	Asp	Pro	Ala	Arg	Trp	Arg	Met	Leu	Ile	Gln	Gln	Phe	Arg	Tyr
			260					265					270		
Asp	Asn	Tyr	Arg	Leu	His	Gln	Leu	Gly	Asn	Asn	Ser	Val	Phe	Thr	Leu
		275					280					285			
Thr	Leu	Gln	Ala	Gly	Leu	Ser	Ala	Ile	Lys	Thr	Pro	Gln	Cys	Tyr	Lys
	290					295					300				
Glu	Asp	Gly	Ser	Ser	Lys	Ser	Pro	Asp	Cys	Pro	Val	Cys	Ser	Arg	Ser
305					310					315					320
Leu	Asn	Lys	Leu	Ala	Gln	Pro	Leu	Pro	Met	Ala	His	Cys	Ala	Asn	Ser
				325					330					335	
Arg	Leu	Val	Cys	Lys	Ile	Ser	Gly	Asp	Val	Met	Asn	Glu	Asn	Asn	Pro
			340					345					350		
Pro	Met	Met	Leu	Pro	Asn	Gly	Tyr	Val	Tyr	Gly	Tyr	Asn	Ser	Leu	Leu
		355					360					365			
Ser	Ile	Arg	Gln	Asp	Asp	Lys	Val	Val	Cys	Pro	Arg	Thr	Lys	Glu	Val
	370					375					380				

09629469.072800

Phe His Phe Ser Gln Ala Glu Lys Val Tyr Ile Met  
385 390 395

<210> 10895  
<211> 2127  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (231).. (1751)

<400> 10895  
aaaatgctct ggctccggtg gtgacagggt gtccagcttc ttacagccat cttcactgaa 60  
actaaggtta actcctcact ctctatggac ggctactctc tatttccaag ggcgatgaaga 120  
atttccctct tctcctgtgc ttctatctaa aagttctccc tggataatta tcattgcagt 180  
ggagtgcctg gattggacat cctcatctgg gtcaactaaa aaaagaaaagc atgcaagacg 240  
acagcataga agcttctact tccatctctc agcttctaag agagagctat ttagctgaaa 300  
ccagacatcg gggaaacaat gagaggagtc gagcggagcc ctctccaac ccttgccatt 360  
tcggcagtc ttctggggcc gctgaaggag gcggaggcca agatgacctt ccagatcttt 420  
cagcctttct gagccaagaa gaattagacg aaagtgtcaa tttggcaaga ctggccatca 480  
attacgacct tttggagaag gcagatgaaa ctcaagctag aaaacgactt tctcctgac 540  
agatgaaaca ctcacctaatt ttaagttttg agcctaactt ctgccaggat aacctctgaa 600  
gtcccaccag ctctaaagaa agccccagg aggcacaaaag gccacagtat tgttctgaaa 660  
cccagtccaa aaaagtattt ttaaataagg ctgccgactt cattgaagag ctatcctccc 720  
ttttcaaatc ccacagctcc aaaaggatta gacctcgtgc ctgcaaaaaac cacaagagta 780  
aactggaatc tcaaaaacaaa gttatgcagg aaaacagctc cagtttctca gatctgtcag 840  
aaagacgaga aagatcttct gttcccatcc ctatccctgc ggataccagg gataatgaag 900  
tgaatcacgc cctggaacag caggaagcca agaggcgtga agcggagcag gctgccagtg 960  
aggcggctgg tggagacact acaccagggt ctcccccttc atctctgtac tatgaagaac 1020  
ctctggggca acctccccgg ttactcaaaa agttacggag cagagaagtt ccagaaggaa 1080  
ctcgagtaca gttggattgc atagtggtag gaattccacc acctcaagta aggtggtact 1140  
gtgaaggcaa ggagcttgaa aattccccag atattcacat cgtccaggca ggaaatctgc 1200  
actcactgac cattgcggaa gcctttgaag aggacacagg acgtatttcc tgctttgctt 1260  
ctaacatcta tgggacagat tcgacttctg ctgagattta tatagaaggg gtttcttctt 1320  
ctgactcaga aggcgacctt aacaaggaag agatgaatcg aatccagaag ccaaatgagg 1380  
tgtcatctcc tcccactacc tctgcagtca ttctccagc agtaccctaa gccagcatt 1440  
tggtggccca acctcgtgtg gcaaccatcc agcagtgta gagccccacc aattacttgc 1500  
agggttgga tggaaaacct atcattgcag ctctgtgtt tacaaaagat ctacaaaatt 1560  
tgtcagcttc tgagggtcag ctggttgtct ttgaatgcag agtaaaaagga gctccatctc 1620  
ctaagggtga gtggtataga gaagggactt taatagaaga ttctccagat tttaggattt 1680  
tacagaaaaa acctcgatcc atggcagagc caggtaagga tgatttcaac ttttaatttat 1740  
tagtatatga gtgattttat atatacaaga atacataatg aagttacact gagatgaata 1800  
aaaagtgaag aataaagttt taggaaaaaa agatccaaat gggccgggtg cagtggctca 1860  
tgtctgtaat tccagcactt tgcgaggccg aggcggggcg attacttgag atcagaagtt 1920  
caagaccagc ctggccaaca tgacaaaatg aaaccctatc tctactaaaa atataaaaat 1980  
tagccaggca tagtggcgca cgtctgtaat cccagctacc tgggaggctg aggcaggaga 2040

-4358/13211-

atcacttgag cctgggaggt ggaggttgca gtgagccgag atcgtgacac tacagtccag 2100  
ctgcgcaaca aaacaagaat ctgtctc 2127

<210> 10896

<211> 507

<212> PRT

<213> Homo sapiens

<400> 10896

Met	Gln	Asp	Asp	Ser	Ile	Glu	Ala	Ser	Thr	Ser	Ile	Ser	Gln	Leu	Leu	
1				5					10					15		
Arg	Glu	Ser	Tyr	Leu	Ala	Glu	Thr	Arg	His	Arg	Gly	Asn	Asn	Glu	Arg	
			20					25					30			
Ser	Arg	Ala	Glu	Pro	Ser	Ser	Asn	Pro	Cys	His	Phe	Gly	Ser	Pro	Ser	
		35					40					45				
Gly	Ala	Ala	Glu	Gly	Gly	Gly	Gly	Gln	Asp	Asp	Leu	Pro	Asp	Leu	Ser	
	50					55					60					
Ala	Phe	Leu	Ser	Gln	Glu	Leu	Asp	Glu	Ser	Val	Asn	Leu	Ala	Arg		
65					70				75					80		
Leu	Ala	Ile	Asn	Tyr	Asp	Pro	Leu	Glu	Lys	Ala	Asp	Glu	Thr	Gln	Ala	
			85						90					95		
Arg	Lys	Arg	Leu	Ser	Pro	Asp	Gln	Met	Lys	His	Ser	Pro	Asn	Leu	Ser	
			100					105					110			
Phe	Glu	Pro	Asn	Phe	Cys	Gln	Asp	Asn	Pro	Arg	Ser	Pro	Thr	Ser	Ser	
		115					120					125				
Lys	Glu	Ser	Pro	Gln	Glu	Ala	Lys	Arg	Pro	Gln	Tyr	Cys	Ser	Glu	Thr	
	130					135					140					
Gln	Ser	Lys	Lys	Val	Phe	Leu	Asn	Lys	Ala	Ala	Asp	Phe	Ile	Glu	Glu	
145					150					155					160	
Leu	Ser	Ser	Leu	Phe	Lys	Ser	His	Ser	Ser	Lys	Arg	Ile	Arg	Pro	Arg	
				165					170					175		
Ala	Cys	Lys	Asn	His	Lys	Ser	Lys	Leu	Glu	Ser	Gln	Asn	Lys	Val	Met	
			180					185					190			
Gln	Glu	Asn	Ser	Ser	Ser	Phe	Ser	Asp	Leu	Ser	Glu	Arg	Arg	Glu	Arg	
		195					200					205				
Ser	Ser	Val	Pro	Ile	Pro	Ile	Pro	Ala	Asp	Thr	Arg	Asp	Asn	Glu	Val	
	210					215					220					
Asn	His	Ala	Leu	Glu	Gln	Gln	Glu	Ala	Lys	Arg	Arg	Glu	Ala	Glu	Gln	
225					230					235					240	
Ala	Ala	Ser	Glu	Ala	Ala	Gly	Gly	Asp	Thr	Thr	Pro	Gly	Ser	Ser	Pro	
				245				250						255		
Ser	Ser	Leu	Tyr	Tyr	Glu	Glu	Pro	Leu	Gly	Gln	Pro	Pro	Arg	Phe	Thr	
			260					265					270			
Gln	Lys	Leu	Arg	Ser	Arg	Glu	Val	Pro	Glu	Gly	Thr	Arg	Val	Gln	Leu	
	275						280					285				
Asp	Cys	Ile	Val	Val	Gly	Ile	Pro	Pro	Pro	Gln	Val	Arg	Trp	Tyr	Cys	
	290					295						300				

09629469.072800

Glu Gly Lys Glu Leu Glu Asn Ser Pro Asp Ile His Ile Val Gln Ala  
 305 310 315 320  
 Gly Asn Leu His Ser Leu Thr Ile Ala Glu Ala Phe Glu Glu Asp Thr  
 325 330 335  
 Gly Arg Tyr Ser Cys Phe Ala Ser Asn Ile Tyr Gly Thr Asp Ser Thr  
 340 345 350  
 Ser Ala Glu Ile Tyr Ile Glu Gly Val Ser Ser Ser Asp Ser Glu Gly  
 355 360 365  
 Asp Pro Asn Lys Glu Glu Met Asn Arg Ile Gln Lys Pro Asn Glu Val  
 370 375 380  
 Ser Ser Pro Pro Thr Thr Ser Ala Val Ile Pro Pro Ala Val Pro Gln  
 385 390 395 400  
 Ala Gln His Leu Val Ala Gln Pro Arg Val Ala Thr Ile Gln Gln Cys  
 405 410 415  
 Gln Ser Pro Thr Asn Tyr Leu Gln Gly Leu Asp Gly Lys Pro Ile Ile  
 420 425 430  
 Ala Ala Pro Val Phe Thr Lys Met Leu Gln Asn Leu Ser Ala Ser Glu  
 435 440 445  
 Gly Gln Leu Val Val Phe Glu Cys Arg Val Lys Gly Ala Pro Ser Pro  
 450 455 460  
 Lys Val Glu Trp Tyr Arg Glu Gly Thr Leu Ile Glu Asp Ser Pro Asp  
 465 470 475 480  
 Phe Arg Ile Leu Gln Lys Lys Pro Arg Ser Met Ala Glu Pro Gly Lys  
 485 490 495  
 Asp Asp Phe Asn Phe Asn Leu Leu Val Tyr Glu  
 500 505

<210> 10897  
 <211> 2005  
 <212> DNA  
 <213> Homo sapiens

<400> 10897  
 tcaagatgag atttgtatgg tgacaaagag ccagaccata tcaagtacct aactcattac 60  
 tatcctataa ctatgagtat tactggtatt cttattggcc acttgacacc aacacaagtg 120  
 gggggcctta tatcacttaa gaagaggaaa tatatagaaa aaagtggcct ggagagaaac 180  
 ttgctccctg aatttccaat atatgtccaa actgatgact ggggtgagaa agatctattc 240  
 tggcttttgc atactgactc agataaaaaa caaagctcat attattacaa agtcaaaaaac 300  
 aaaagatact ggtagggctg cagagaaaag ggaatgctta tacactgttg gtgggaatat 360  
 aaattagttc agccactatg aaaagcagtt tggagatttc tcaaaggact taaaacggaa 420  
 tcgctgttca acccagtaat ctaattagtg ggtatatatg caaaagaaaa caaatcgttc 480  
 taccaaaatag acacatgcac tcacatgttt actgcaacac tattcacaac agcaaagaga 540  
 tggaatotac ctaggtgccc atccatggtg gatttgataa gtaaaatgtg gtacatatat 600  
 actatggaat attacacagc cacaaaaagg aatgaagtca tgtcctttgt agcaacatgc 660  
 atggtgctgg aggtcactat cctaagtga ttaacacaag aacagaaaac caagtatcac 720  
 atgttctcac ttgtaagtgg gaggtaaaca ttgggtacac atggacctaa agatagtaat 780  
 ggtagacacc agggacaact agagggggca gtcagggagg ggagcaagga atgaaaatct 840

09629469.072800

```

aactattggg tattgtgctc agtatgtgga tgacaggatc agtcacatcc ctaacctcat 900
catcattaca atatactcgg gtaataaacc tacacatgta cccctgaat ctaaaataaa 960
agttaaagtt attttttaaa aaaaaactaa aaatgtctgg tacacctgag taatcctctt 1020
ggtgagagct tcagccagaa accaggctcc ttcaatccta agactgaccc atggatatgg 1080
atggggcact ggggcattcc tgttctggga gcaaaggagg tgttttttgg tgaagatatt 1140
tgtgaaactg aacccttctg gtggagctga agtctcagct cactgagaag taagccatgc 1200
aagccagagg gctcagaggt gggtagccca gacaagacaa ggagctcttt tccttgattg 1260
acacttattt cactccattg gtttgtctcc ctcttacata gtgtcactgt cactagagtt 1320
ggggatggac aaaggattcc tggttgggtc taaagccagc acagtgggag gtgggctgtt 1380
ggatggctaa gacagattag agtaagagtg tctggtggtt ggtgatgatg agagatctca 1440
cctccaaagc caggctctac ctgcacagca tctttggttt gacatagctt tgtcaagcag 1500
agcccgagaa ataagaggct ctgagtttcc actagaccag gccaccctag tcattggcaa 1560
gtcaaagctc tggtcctgat gttcattctt caactgaagg ggcaagggaa atctgtttcc 1620
tcctccagaa gcttctgccg tgggactgcg taatacagag gtatctccta gtgtgggaaa 1680
tggacagatg gtggtgatgc tttagtgcac cagctcactt tccagttatg ttctctttct 1740
ctgggagaga gagacaggga gaaagagaga gggagttagg ggagaaaaaa gaggtggatg 1800
acatgcagca tgagctgtgc actagtgttg gagaatacga ctgcctgttg gtccacggca 1860
aattctaaat taaaaaacia actgggccgg gtatggggac ccacgcctgt aattccagca 1920
ctttgggggg ctgaagtggg aggatcactt gaggccagga gtttgtgacc agtcttggca 1980
acaaaatgag accccatctc tttttt
2005

```

<210> 10898  
 <211> 2027  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (34).. (1896)

```

<400> 10898
aagtgcggac gcccggtcc cggcgtggac gccatggtgc tgtgcccggg gattgggaag 60
ctgctgcaca agcgcgtggt gctggccagc gcctcccccac gccgtcagga gatcctcagc 120
aacgcgggtc tcaggtttga ggtggtcccc tccaagttaa aagagaagct ggacaaagcc 180
tccttcgcta ctccgtatgg gtacgccatg gagaccgcca agcagaaggc cctggagggtg 240
gccaaccggc tgtaccagaa agacctgcgg gcccccgacg tggtcattgg agcggacacg 300
atcgtgacag tcggggggct gattctggag aagccgggtg acaagcagga cgcctacagg 360
atgctgtccc ggttgagtgg gagagaacac agcgtgttca cagggtgtcg gatcgtccac 420
tgctccagca aagaccatca gctggacacc agggctctcg aattctacgg ggaaacgaag 480
gtgaagtctt cggagctgtc cgaggagctg ctctgggaat acgtccacag cggggagccc 540
atggacaaag ctggcggcta cgggatccag gccctgggag gcatgctggt ggagtccgta 600
cacggggact ttctgaacgt ggtgggattc ccgctgaacc acttctgcaa gcagctggtg 660
aagctctact acccgccccg cccggaggac ctgcggcgga gtgtcaagca cgactccatc 720
ccggccgcgg acaccttcga agacctcagt gacgtggagg ggggtggctc ggagcccact 780
cagagggacg cgggcagccg cgatgagaag gccgaggcgg gagaggcggg acaggccacg 840
gcagaggctg agtgtcacag gactcgggag accctgcctc cgttcccgac acgcctcctg 900
gagctgattg agggctttat gctatccaag ggcctgctca ccgcttgcaa actgaagggtg 960

```

```

ttcgatttgt taaaagatga agcaccocag aaggctgcgg atattgccag caaagtggac 1020
gcctctgcgt gtggaatgga gaggcttctg gacatctgtg ctgccatggg gctcctggag 1080
aagacagagc aaggttacag taacacagag acagcgaacg tctacctggc atcggatggc 1140
gaatactctc tgcacggctt catcatgcac aataatgacc tcacatggaa cctctttaca 1200
tacctggagt ttgccatccg agagggaaca aaccagcacc acagggcggt ggggaagaag 1260
gcggaagatc tgttccagga tgcgtactac cagagcccg agacgcggct gaggttcatg 1320
cgggccatgc acggcatgac gaagctgact gcgtgccagg tggccacggc cttcaatctg 1380
tcccgttctt cctccgcctg cgacatggga ggctgcaccg gtgcactggc ccgagagctg 1440
gcccatgagt accctcgtat gcaggtgact gtgtttgacc tcccagacat tatcgagctg 1500
gccgcccact tccaaccccc cggaccgcag gcagtgcaga tccacttcgc agcaggtgac 1560
tttttcaggg accccctccc cagcgctgag ctgtacgtcc tgtgccggat cctgcatgac 1620
tggccagacg acaaagtcca caagttactc agcagggtcg ccgagagctg caagccaggg 1680
gccggcctgc tgctgggtgga gacgctcctg gatgaggaga agagggtggc gcagcgcgcc 1740
ctgatgcagt cactgaacat gctgggtgcag actgaaggca aggagcggag cctgggagag 1800
tatcagtgc tgcaggagct gcacggcttc caccaggtgc aggtggtgca cttgggggggt 1860
gtcctggatg ccatcttggc caccaaaagt gccccctgaa gccaggcag catgttcatt 1920
atagggatgt cctccccag gctgcagggt gaccgcccgg tcccaagta ccataggaca 1980
gtcacatagg agcgtgtagt cgtgactgaa taaagaaagc aaaagcc 2027

```

<210> 10899  
 <211> 621  
 <212> PRT  
 <213> Homo sapiens

<400> 10899

Met	Val	Leu	Cys	Pro	Val	Ile	Gly	Lys	Leu	Leu	His	Lys	Arg	Val	Val
1				5					10					15	
Leu	Ala	Ser	Ala	Ser	Pro	Arg	Arg	Gln	Glu	Ile	Leu	Ser	Asn	Ala	Gly
			20					25					30		
Leu	Arg	Phe	Glu	Val	Val	Pro	Ser	Lys	Phe	Lys	Glu	Lys	Leu	Asp	Lys
		35					40					45			
Ala	Ser	Phe	Ala	Thr	Pro	Tyr	Gly	Tyr	Ala	Met	Glu	Thr	Ala	Lys	Gln
	50					55					60				
Lys	Ala	Leu	Glu	Val	Ala	Asn	Arg	Leu	Tyr	Gln	Lys	Asp	Leu	Arg	Ala
	65				70					75				80	
Pro	Asp	Val	Val	Ile	Gly	Ala	Asp	Thr	Ile	Val	Thr	Val	Gly	Gly	Leu
			85						90					95	
Ile	Leu	Glu	Lys	Pro	Val	Asp	Lys	Gln	Asp	Ala	Tyr	Arg	Met	Leu	Ser
			100					105					110		
Arg	Leu	Ser	Gly	Arg	Glu	His	Ser	Val	Phe	Thr	Gly	Val	Ala	Ile	Val
	115						120					125			
His	Cys	Ser	Ser	Lys	Asp	His	Gln	Leu	Asp	Thr	Arg	Val	Ser	Glu	Phe
	130					135					140				
Tyr	Gly	Glu	Thr	Lys	Val	Lys	Phe	Ser	Glu	Leu	Ser	Glu	Glu	Leu	Leu
145				150						155				160	
Trp	Glu	Tyr	Val	His	Ser	Gly	Glu	Pro	Met	Asp	Lys	Ala	Gly	Gly	Tyr
			165						170					175	

008220" 6946960



Gly	Ile	Gln	Ala	Leu	Gly	Gly	Met	Leu	Val	Glu	Ser	Val	His	Gly	Asp
			180					185					190		
Phe	Leu	Asn	Val	Val	Gly	Phe	Pro	Leu	Asn	His	Phe	Cys	Lys	Gln	Leu
		195					200					205			
Val	Lys	Leu	Tyr	Tyr	Pro	Pro	Arg	Pro	Glu	Asp	Leu	Arg	Arg	Ser	Val
	210					215					220				
Lys	His	Asp	Ser	Ile	Pro	Ala	Ala	Asp	Thr	Phe	Glu	Asp	Leu	Ser	Asp
225					230					235					240
Val	Glu	Gly	Gly	Gly	Ser	Glu	Pro	Thr	Gln	Arg	Asp	Ala	Gly	Ser	Arg
				245					250					255	
Asp	Glu	Lys	Ala	Glu	Ala	Gly	Glu	Ala	Gly	Gln	Ala	Thr	Ala	Glu	Ala
			260					265					270		
Glu	Cys	His	Arg	Thr	Arg	Glu	Thr	Leu	Pro	Pro	Phe	Pro	Thr	Arg	Leu
		275					280					285			
Leu	Glu	Leu	Ile	Glu	Gly	Phe	Met	Leu	Ser	Lys	Gly	Leu	Leu	Thr	Ala
	290					295					300				
Cys	Lys	Leu	Lys	Val	Phe	Asp	Leu	Leu	Lys	Asp	Glu	Ala	Pro	Gln	Lys
305					310					315					320
Ala	Ala	Asp	Ile	Ala	Ser	Lys	Val	Asp	Ala	Ser	Ala	Cys	Gly	Met	Glu
				325					330					335	
Arg	Leu	Leu	Asp	Ile	Cys	Ala	Ala	Met	Gly	Leu	Leu	Glu	Lys	Thr	Glu
			340					345					350		
Gln	Gly	Tyr	Ser	Asn	Thr	Glu	Thr	Ala	Asn	Val	Tyr	Leu	Ala	Ser	Asp
		355					360					365			
Gly	Glu	Tyr	Ser	Leu	His	Gly	Phe	Ile	Met	His	Asn	Asn	Asp	Leu	Thr
	370					375					380				
Trp	Asn	Leu	Phe	Thr	Tyr	Leu	Glu	Phe	Ala	Ile	Arg	Glu	Gly	Thr	Asn
385					390					395					400
Gln	His	His	Arg	Ala	Leu	Gly	Lys	Lys	Ala	Glu	Asp	Leu	Phe	Gln	Asp
				405					410					415	
Ala	Tyr	Tyr	Gln	Ser	Pro	Glu	Thr	Arg	Leu	Arg	Phe	Met	Arg	Ala	Met
			420					425				430			
His	Gly	Met	Thr	Lys	Leu	Thr	Ala	Cys	Gln	Val	Ala	Thr	Ala	Phe	Asn
		435					440					445			
Leu	Ser	Arg	Phe	Ser	Ser	Ala	Cys	Asp	Met	Gly	Gly	Cys	Thr	Gly	Ala
	450					455					460				
Leu	Ala	Arg	Glu	Leu	Ala	His	Glu	Tyr	Pro	Arg	Met	Gln	Val	Thr	Val
465					470					475					480
Phe	Asp	Leu	Pro	Asp	Ile	Ile	Glu	Leu	Ala	Ala	His	Phe	Gln	Pro	Pro
				485					490					495	
Gly	Pro	Gln	Ala	Val	Gln	Ile	His	Phe	Ala	Ala	Gly	Asp	Phe	Phe	Arg
			500					505					510		
Asp	Pro	Leu	Pro	Ser	Ala	Glu	Leu	Tyr	Val	Leu	Cys	Arg	Ile	Leu	His
		515					520					525			
Asp	Trp	Pro	Asp	Asp	Lys	Val	His	Lys	Leu	Leu	Ser	Arg	Val	Ala	Glu
	530					535					540				
Ser	Cys	Lys	Pro	Gly	Ala	Gly	Leu	Leu	Leu	Val	Glu	Thr	Leu	Leu	Asp
545					550					555					560

09629469.072800

Glu	Glu	Lys	Arg	Val	Ala	Gln	Arg	Ala	Leu	Met	Gln	Ser	Leu	Asn	Met
				565					570					575	
Leu	Val	Gln	Thr	Glu	Gly	Lys	Glu	Arg	Ser	Leu	Gly	Glu	Tyr	Gln	Cys
			580					585					590		
Leu	Leu	Glu	Leu	His	Gly	Phe	His	Gln	Val	Gln	Val	Val	His	Leu	Gly
		595					600					605			
Gly	Val	Leu	Asp	Ala	Ile	Leu	Ala	Thr	Lys	Val	Ala	Pro			
	610					615					620				

<210> 10900  
 <211> 1737  
 <212> DNA  
 <213> Homo sapiens

<400> 10900

cagaattcaa	aatatgaaaa	tttattttgc	ataggaaaca	ataatctctg	gtaaacatca	60
ttactgcatc	taacaaaaca	atgccttcaa	ttaaaggggg	aaagtgagtt	tttaaacatt	120
aggggttaat	ttagaagaaa	atacagtata	taataatctc	aacatcatgt	ttagggtaaa	180
aatgctataa	tgtgaaaaaa	gtccctaaga	actggacaga	acctacctaa	caacaccatt	240
taccgtgtat	gttttcaata	gacaaaacat	attttgtacc	aaattccaac	agtggtaatt	300
ctatagtgtg	ggccctttta	aaaatggcag	cattgtactt	gaatcagaaa	gcttactggg	360
atttcctcat	cgaaagtaga	gattgcagct	aatcctagta	ccttttgta	gtaattactt	420
aaggcacagt	gcaaagttga	aggactgttt	tggtaacaa	tcaagccagc	tacatgtatg	480
cttgcccttg	tatccttgct	agagcacatg	cagggtata	accgtattat	atacaacaag	540
gccaccctgt	tgtatctgtg	ttacaattaa	acatcagtc	cagaaagtga	accctagtca	600
tttattatag	gtgcccacct	ctgacttgga	acaaaatgcc	actccattca	tgttcatttt	660
tgtcctggag	aggatttatt	tcctaaaaga	ttctgaaagc	caacaaatca	atgtagttct	720
tcataagaga	cttaagagta	aggctcaaaa	tggcctcaaa	atgggcttct	tggatgactt	780
ccaacagtga	ctggccttct	caacactgca	gatgtotgag	cactaccata	acctaacgaa	840
gtgaggaagg	aggaggcaaa	ttggtatttt	taaacaagaa	tttaagtggc	tctttctttc	900
aagtctaaaa	aaaccttttg	ctttaaagat	tataaactga	tttactaaat	ttataaaaga	960
ccttaattta	gcaaagagct	tctttttcct	ttgggttcagt	tactcaaaat	ccactgtgtg	1020
aaggaataat	gtatccatca	ttcagccttt	atagcggctc	tccggtagcg	aagtactgtc	1080
actgttacct	atatatttaa	agccagcatg	atcacaaaac	gtagaagaat	tgtaaaatca	1140
ttgggtgtca	ttaaggttgt	gattattctt	gttgacacagg	tataggaaga	gaggctccaa	1200
gtcagcgcac	tcacagttcc	tgagtctctc	gtcttccaca	gacactggag	ctgtgcaaac	1260
ttactggccg	cgctgatgaa	agtacataga	ttcatggcca	ggtctatgat	ccacttctgc	1320
agggcaagga	tgaaccaaga	agacaccaat	acagcgatgt	aaggagtggc	ctgcttcacg	1380
ttcccgttaa	aatgaaagat	acagagcagg	aggatgacat	cttgcgcgat	gaggatgggg	1440
tactccaggt	aggtcagcgg	cggataccca	tagtaacact	ggtaccgcag	aaacaccagg	1500
aatcctgcca	gctccagaag	taaactcgga	aggctgaggc	cccgcgcgct	gcgcgcgcgct	1560
agcacagcgg	agatctgcgg	cagcttcagc	gcggcgcaca	cgcccagcgt	gctccagtta	1620
cacagcccca	gcagcgcgcg	ctccatagcg	ccacgggcgc	gggcacctgg	gcggcgcgag	1680
cgagaaggga	ccgctcagcc	tcggcggcgc	agctctgcgc	aagccttccg	ccttccc	1737

<210> 10901

09629459.072300

<211> 1941  
<212> DNA  
<213> Homo sapiens

<400> 10901

```

acatattcat gaaaagattg gaggagggaa ttaatttaat cttatttggg tttgggagag 60
atgactggat ttgagggtag gcaaattggga ggcagaggag ctaaagacca gtggggtggc 120
aagtgcaagc tgaaccgagg gtactgtggt gggagcagag agggctggat aagaaagaca 180
tgacagggcc gggcgcggtg gctcacgcct gtaatccag cacttgggga ggccgagtgg 240
ggtggatcac aaggtcagga gttcaagacc agcctggcca agatggtgaa accccacctt 300
tttcaaata tgtatctcag gggagaaaaa agagactcca tgttttcaaa gtttttgcct 360
tttattattt atttatttat ttttgctttt taaaagcctc tcaacaaact ctccttattc 420
ccatgtgact gaggatgaaa cagtctcaga ttaaacagac ttctcaaggt cacgcattgt 480
cagtccaac attcaaaaga aggctaggtc aggttcttga acatccttgt gaaattattc 540
ttcccttaag tctgggttaa attataaatt atgatctgca tttaaattcc caaatttaaa 600
acaaacaaa caaaacaacg cacttcagac tcttttgtaa accttgaaa ggaacttgat 660
ttctgtgtgc tttgaaagta tatattgcaa tcaaggatatt ggtggtaagt gtgtttttga 720
ggtttgtcac aaattaacaa aattatatgc ctaaagagtt ttgcagagaa atgcaaatca 780
ttgtaagcgc cttgtcataa taagtagtgt gctttggttc ctgtttatgt atccctaaaa 840
cacataatac actattacat tgacacgaag gaaaccattc tcattgatgg tttctttata 900
tctggccccc aaattagttt gtggtatcaa tcagtataat ttctagagag cctattaagc 960
ctatgtttgt acctgtcttt cagggtataag ccttgtcttc tgcagatgat tcttgagcac 1020
ctactatatg ccaggcccca ggggtttccat ggcccttaagg aattcccagg ctggtgaaag 1080
tggaacaggc ttttgccata tgacaaaacac tatataagtg atgactttgg agccttaagg 1140
gagggcctac tctagcagca cagtgaagag tgatgaagct tgcctgaggg tgtggagctg 1200
ggtcttgcaa gataaataat agctcacaag ccaggaaggg ggagaaggta ttgcagcaga 1260
gtgaagcaca ggtgctgaga cttggaagca gggacctatt tgggaagagt gagtagctgg 1320
aggctggaat gtcaatattg tgtgttttga ctgtgcgggg gaagaaagga ggacattgga 1380
gatgaggctg gagagatagg ttagagctag attatgaaag gggactgggt atggcaggca 1440
gctaaggaa ttgagtttta ttttggtgaa cgaggagagc aaatgaagtt ttctttttgt 1500
ttttcttttt atttttatct tggaagattt catagagaaa cctactacct aggagtgaag 1560
ttgctgggtc ctatggtaac tccacattta cttttttgag gaactgcca actgtttttc 1620
atagtggctg caccatttta gaaatatcta aaggcggctg ggtgcagtgg ctcacacctg 1680
taatcccagc actttgggag gctgaggcgg gcagatcacc tgaggtcagg agttcgagac 1740
caacctggcc aacatggtga aacctgtct ctaataaaaa tacaaaaatt agccgggtgc 1800
ggttgcgggt gcctgtaatc ccagctactc gggaggctga ggcaggagaa tcgcttgagc 1860
ctgggaggca gaggttcag tgagccgaga ctgtgccact gcactccagt ctgggcaaca 1920
gaggagagact ctgtatcatt t

```

<210> 10902  
<211> 1451  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (72)..(1046)

<400> 10902

```

tgtcgacgcc gctgccaccg cctgcctgag agaagtcgtc ggggccgacc ccgtcgcctc 60
cgccggctac catgtccgcc caggcgcaga tgcgggccct gctggaccag ctcatgggca 120
cggctcggga cggagacgaa accagacaaa gggtaagtt tacagatgac cgtgtctgca 180
agagtcacct tctggactgc tgcccccatt acatcctggc tgggacgcgc atggatttag 240
gagaatgtac caaaatccac gacttggccc tccagacaga ttatgagatt gcaagtaaag 300
aaagagacct gttttttgaa ttagatgcaa tggatcactt ggagtccttt attgctgaat 360
gtgatcggag aactgagctc gccaaagaagc ggctggcaga aacacaggag gaaatcagtg 420
cggaagtttc tgcaaaggca gaaaaagtac atgagttaaa tgaagaaata ggaaaactcc 480
ttgctaaagc cgaacagcta ggggctgaag gtaatgtgga tgaatcccag aagattctta 540
tggaagtgga aaaagtctgt gcgaagaaaa aagaagctga ggaagaatac agaaattcca 600
tgccctgcac cagttttcag cagcaaaagc tgcgtgtctg cgaggtctgt tcagcctacc 660
ttggtctcca tgacaatgac cgtcgcctgg cagaccactt cggtaggcaag ttacacttgg 720
ggttcattca gatccgagag aagcttgatc agttgaggaa aactgtcgtc gaaaagcagg 780
agaagagaaa tcaggatcgc ttgaggagga gagaggagag ggaacgggag gacgtctga 840
gcaggaggtc gggatcaaga accagagatc gcaggaggtc acgctcccg gacggcgctc 900
ggaggcggtc aagatctacc tcccagagagc gacggaaatt gtcccgtcc cggtcccag 960
atagacatcg gcgccaccgc agccgttccc ggagccacag ccggggacat cgtcgggctt 1020
cccgggaccg aagtgcgaaa tacaagtaac tactctgact ccttcggtag ctgcaaccag 1080
gggttctcca gagagcgggc atccagagag gactcctggg agagcgggag gagcgagcga 1140
gggcccccg actggaggct tgagagctcc aacgggaaga tggcttcacg gaggtcagaa 1200
gagaaggagg ccggcgagat ctgaaccgct ctcccgggtg ctgtaaatag tctgataaac 1260
gttcacacag tctaaaatta ccttttatat ttgctgaata caactcatct tttgtagttt 1320
aaaatttcta ttgttttgga gctagctgtg agtttctaga agtgtacaga gttgctcctg 1380
tgttcccggt tcatgttgag taggaataaa taaatctgat gctgcctcct gaggtcgcgg 1440
ggggtttctg c

```

<210> 10903

<211> 325

<212> PRT

<213> Homo sapiens

<400> 10903

```

Met Ser Ala Gln Ala Gln Met Arg Ala Leu Leu Asp Gln Leu Met Gly
 1             5             10             15
Thr Ala Arg Asp Gly Asp Glu Thr Arg Gln Arg Val Lys Phe Thr Asp
             20             25             30
Asp Arg Val Cys Lys Ser His Leu Leu Asp Cys Cys Pro His Asp Ile
             35             40             45
Leu Ala Gly Thr Arg Met Asp Leu Gly Glu Cys Thr Lys Ile His Asp
             50             55             60
Leu Ala Leu Arg Ala Asp Tyr Glu Ile Ala Ser Lys Glu Arg Asp Leu
             65             70             75             80
Phe Phe Glu Leu Asp Ala Met Asp His Leu Glu Ser Phe Ile Ala Glu
             85             90             95
Cys Asp Arg Arg Thr Glu Leu Ala Lys Lys Arg Leu Ala Glu Thr Gln

```

00929459.072300



```

aataggggtg tctttggcag gggaacaaag agcgttttgg ggctgccagg tggctgctct 480
gagtgcctca gtgttggcca gagggtgttg gcttcagaa acttcttgct gcctccttgc 540
aggaggaggt cctggccatg ctaggactgt gagctgctcc ccctgaaccc ctggcaggag 600
ccagacgctg ctgtgctgcc acgctggctc ttcagccctt ggacggacgc cttggctggt 660
ccccagggca ggctcctccc aggcggctgt attctcttct cttcggggaa gcacaaggca 720
gatgttgtcg atttaaatg tttccttatt agactctogc tctctggcct gggctgggtt 780
tcatcagccg ggaactctga ttgcatcact ttgcgctca ctctccagg aaccaggcca 840
agggctggga gaggaggcag ggtgggagtg agcgtggctg agggaggggc agacggatgg 900
caggcaaggg acttaagtga tggacttaag tgatggggcc ctgttctggg ggaccagcac 960
tgtcaggaac ccaggagcac agctggaacc tggagtcca cacgcctgtc agagcgctac 1020
tgtctcttag ctgggtgccc agctccctgc atcagaatca cctgagagct cgtttaaaat 1080
gcccttttaa gacctgcagc agtgactctc aaccagggtt gatttggcga tctctggaga 1140
cattttcggg tgctcacacct ggggctgtgc tactggcagg gtgctgctga acatcccaca 1200
gtgcgcagga cagccctca caaaaagaaa ccctgtcctg cggagtctgt ggttctggaa 1260
gggctcactg ggaatcttcg tttgtcatga gccagtggaa tgttttttgg tttttggtt 1320
tttttttttt tttttttttt gagacagtct tgctctgtca ccaggctgg agtgcatgg 1380
cgcatcttg gctcactgca acctccgct ccgggttca agagattctc ctgcctcagc 1440
ctcacaagta gctgggatta caggtgcccg ccaccacatc tggctaattt ttgtattttt 1500
agtagagggt gggtttcatg tttcacctg ttgtccagga tggccccgaa ctctgacct 1560
caggtgatcc acccgctca gcctcccagc tacttaggag gctgaggcag gaggatcatt 1620
tgagcccagg aaacatagt agacccctta cctc 1654

```

<210> 10905  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 10905

Met	Pro	Ser	Leu	Cys	Gly	Val	Ser	Leu	Glu	Asp	Gln	Ser	Gln	Gly	Cys
1				5					10					15	
Cys	Leu	Thr	Gly	Glu	Gln	Gln	Asp	Ser	Asp	Leu	Asp	Val	Ser	Asp	Ser
			20					25					30		
Gly	Ile	Leu	Ser	Pro	Asn	Pro	Asp	Ala	Phe	Pro	Ala	Ser	Leu	Asp	Asp
			35				40					45			
Leu	Ala	Ser	Leu	His	Pro	Val	Pro	Met	Pro	Cys	Pro	Phe	Ser	Ile	Leu
	50					55					60				
Glu	Phe	Leu	Lys	Pro	Gln	Trp	Ala	Val	His	Ser	Val	Leu	Leu	Trp	Val
	65				70					75					80
Thr	Tyr	Asp	Ala	Ser	Leu	Pro	Pro	Gly	Pro	Pro	Ala	Asn	Pro	Arg	Pro
				85				90						95	
Leu	Leu	Ile	Gly	Val	Ser	Leu	Ala	Gly	Glu	Gln	Arg	Ala	Phe	Trp	Gly
			100					105					110		
Cys	Gln	Val	Ala	Ala	Leu	Ser	Ala	Pro	Val	Leu	Ala	Arg	Val	Ala	Trp
		115					120					125			
Leu	Pro	Glu	Thr	Ser	Cys	Cys	Leu	Leu	Ala	Gly	Gly	Gly	Pro	Gly	His
	130					135						140			
Ala	Arg	Thr	Val	Ser	Cys	Ser	Pro								

09629469.072800

145

150

<210> 10906  
<211> 2064  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1)..(1962)

<400> 10906

```

atggagcgt ctgggccag cgaagtgaca ggctcagacg cgtcgggacc ggacccgcag 60
cttgcggtca ccatgggctt cacgggggtt ggtaaaaaag ctgcacatt tgacttggaa 120
gcaatgtttg acaaaactcg aaggacagct gtggaaagaa gtcgcaaac actggaagca 180
agagaaaaag aggaagaaat gaacagagag aaagaattaa gaagacaaa tgaagatatt 240
gagccaacat cctcaagatc aaatgtggtc agagattgct ccaaattcatc ttccagggat 300
acgagcagca gtgaaagtga acagagttct gactcttctg atgatgagtt aattggccct 360
cctttacccc ctaaaatggg aggaaaacca gttaatttta tggaggaaga tatcctcggt 420
cctttacctc cactcttaa tgaagaagaa gaagaagcag aggaagaaga agaggaagag 480
gaggaagagg aaaatcctgt tcacaagatt cctgactcgc atgagataac gctgaagcat 540
ggcactaaaa cagtgtctgc tttgggtctg gatccctcag gtgcccgttt ggtgacagga 600
ggatatgact atgatgttaa gttttgggat tttgctggaa tggatgcttc ttttaaggca 660
tttcgatccc ttcagccctg tgagtgccat cagatcaagt cattacagta tagtaacaca 720
ggagacatga ttcttgttgt atctggaagc tctcaggcca aggtgattga cagagatggt 780
tttgaagtaa tggaatgtat aaaaggagac cagtatatgt tggacatggc caacaccaag 840
ggtcatacag caatgcttca tactggctca tggcatccca aaataaaggg agaatttatg 900
acttgctcaa atgatgcgac tgtgaggacg tgggaagtgt aaaatccaaa gaagcaaaaa 960
agtgtgttta aaccacggac gatgcaaggc aaaaaagtoa ttcccaactac gtgcacatat 1020
agtagagatg gaaacctcat agcagctgcc tgccagaatg gaagcataca gatctgggac 1080
cgaaatttga ctgttcatcc taagtccac tataaacagg ctcatgactc gggcacagac 1140
acttcttgcg tgactttttc ctatgatggt aatgtccttg cctctcgttg aggtgacgat 1200
tcattaaaat tatgggacat ccgacaattt aataaaccac ttttttcagc ctcgggtctt 1260
cccaccatgt tcccaatgac tgactgctgt ttcagtccag atgataagct catagtcaact 1320
ggtacatcta ttcaaagagg atgtggcagc ggcaaacttg ttttctttga gcgtaggact 1380
ttccaaaggg tgtatgaaat agacatcaca gatgcgagtg ttgttcgctg cctgtggcat 1440
ccaaagctga accagatcat ggttggaact ggaaatggat tggctaaaagt ctattacgac 1500
cccaacaaga gtcagagggg agcaaaatta tgtgtggtta aaaccagcg gaaggcaaaa 1560
caagctgaga ctctaactca ggactacatc atcaccctc atgccttgcc tatgttccgt 1620
gagccccgcc aacggagtac aaggaaacag ctggagaagg acagactgga tcccctgaag 1680
tcgcataaac ctgaacctcc tgtagcaggc ccaggctcgt gtggccgagt tggaaaccac 1740
gggggcactc tctcttccta tattgtgaag aacattgctt tggacaagac cgtatgacagt 1800
aatcctcggg aagccatttt gcgtcatgcc aaagcagcag aagacagccc atattgggtt 1860
totccagcat attccaagac tcagcccaaa accatgtttg cccaagtga atctgatgat 1920
gaggaagcaa agaattagcc agaattgaaa aaacgtaaaa tttgaagaat ctcatattgag 1980
agctgtttgc atgagtggga ggggtatggg acaggtttgg gttttttttt tttatgctca 2040
tgaaattaaa aattcatttt tatg
2064

```

09629469.072300

<210> 10907  
 <211> 654  
 <212> PRT  
 <213> Homo sapiens

<400> 10907

Met	Glu	Arg	Ser	Gly	Pro	Ser	Glu	Val	Thr	Gly	Ser	Asp	Ala	Ser	Gly
1				5					10					15	
Pro	Asp	Pro	Gln	Leu	Ala	Val	Thr	Met	Gly	Phe	Thr	Gly	Phe	Gly	Lys
			20					25					30		
Lys	Ala	Arg	Thr	Phe	Asp	Leu	Glu	Ala	Met	Phe	Glu	Gln	Thr	Arg	Arg
		35					40					45			
Thr	Ala	Val	Glu	Arg	Ser	Arg	Lys	Thr	Leu	Glu	Ala	Arg	Glu	Lys	Glu
	50					55					60				
Glu	Glu	Met	Asn	Arg	Glu	Lys	Glu	Leu	Arg	Arg	Gln	Asn	Glu	Asp	Ile
65					70				75						80
Glu	Pro	Thr	Ser	Ser	Arg	Ser	Asn	Val	Val	Arg	Asp	Cys	Ser	Lys	Ser
			85						90					95	
Ser	Ser	Arg	Asp	Thr	Ser	Ser	Ser	Glu	Ser	Glu	Gln	Ser	Ser	Asp	Ser
			100					105						110	
Ser	Asp	Asp	Glu	Leu	Ile	Gly	Pro	Pro	Leu	Pro	Pro	Lys	Met	Val	Gly
		115					120					125			
Lys	Pro	Val	Asn	Phe	Met	Glu	Glu	Asp	Ile	Leu	Gly	Pro	Leu	Pro	Pro
						135					140				
Pro	Leu	Asn	Glu	Glu	Glu	Glu	Glu	Ala	Glu	Glu	Glu	Glu	Glu	Glu	Glu
145					150					155					160
Glu	Glu	Glu	Glu	Asn	Pro	Val	His	Lys	Ile	Pro	Asp	Ser	His	Glu	Ile
				165					170					175	
Thr	Leu	Lys	His	Gly	Thr	Lys	Thr	Val	Ser	Ala	Leu	Gly	Leu	Asp	Pro
			180					185					190		
Ser	Gly	Ala	Arg	Leu	Val	Thr	Gly	Gly	Tyr	Asp	Tyr	Asp	Val	Lys	Phe
		195					200					205			
Trp	Asp	Phe	Ala	Gly	Met	Asp	Ala	Ser	Phe	Lys	Ala	Phe	Arg	Ser	Leu
	210				215						220				
Gln	Pro	Cys	Glu	Cys	His	Gln	Ile	Lys	Ser	Leu	Gln	Tyr	Ser	Asn	Thr
225					230					235					240
Gly	Asp	Met	Ile	Leu	Val	Val	Ser	Gly	Ser	Ser	Gln	Ala	Lys	Val	Ile
			245						250					255	
Asp	Arg	Asp	Gly	Phe	Glu	Val	Met	Glu	Cys	Ile	Lys	Gly	Asp	Gln	Tyr
			260					265					270		
Ile	Val	Asp	Met	Ala	Asn	Thr	Lys	Gly	His	Thr	Ala	Met	Leu	His	Thr
		275					280					285			
Gly	Ser	Trp	His	Pro	Lys	Ile	Lys	Gly	Glu	Phe	Met	Thr	Cys	Ser	Asn
	290				295						300				
Asp	Ala	Thr	Val	Arg	Thr	Trp	Glu	Val	Glu	Asn	Pro	Lys	Lys	Gln	Lys
305					310					315					320

09659469.072800



-4370/13211-

Ser	Val	Phe	Lys	Pro	Arg	Thr	Met	Gln	Gly	Lys	Lys	Val	Ile	Pro	Thr
				325					330					335	
Thr	Cys	Thr	Tyr	Ser	Arg	Asp	Gly	Asn	Leu	Ile	Ala	Ala	Ala	Cys	Gln
			340					345						350	
Asn	Gly	Ser	Ile	Gln	Ile	Trp	Asp	Arg	Asn	Leu	Thr	Val	His	Pro	Lys
		355					360						365		
Phe	His	Tyr	Lys	Gln	Ala	His	Asp	Ser	Gly	Thr	Asp	Thr	Ser	Cys	Val
	370					375					380				
Thr	Phe	Ser	Tyr	Asp	Gly	Asn	Val	Leu	Ala	Ser	Arg	Gly	Gly	Asp	Asp
385					390					395					400
Ser	Leu	Lys	Leu	Trp	Asp	Ile	Arg	Gln	Phe	Asn	Lys	Pro	Leu	Phe	Ser
			405						410					415	
Ala	Ser	Gly	Leu	Pro	Thr	Met	Phe	Pro	Met	Thr	Asp	Cys	Cys	Phe	Ser
			420					425						430	
Pro	Asp	Asp	Lys	Leu	Ile	Val	Thr	Gly	Thr	Ser	Ile	Gln	Arg	Gly	Cys
		435					440						445		
Gly	Ser	Gly	Lys	Leu	Val	Phe	Phe	Glu	Arg	Arg	Thr	Phe	Gln	Arg	Val
	450					455					460				
Tyr	Glu	Ile	Asp	Ile	Thr	Asp	Ala	Ser	Val	Val	Arg	Cys	Leu	Trp	His
465					470					475					480
Pro	Lys	Leu	Asn	Gln	Ile	Met	Val	Gly	Thr	Gly	Asn	Gly	Leu	Ala	Lys
			485					490						495	
Val	Tyr	Tyr	Asp	Pro	Asn	Lys	Ser	Gln	Arg	Gly	Ala	Lys	Leu	Cys	Val
			500					505						510	
Val	Lys	Thr	Gln	Arg	Lys	Ala	Lys	Gln	Ala	Glu	Thr	Leu	Thr	Gln	Asp
		515					520						525		
Tyr	Ile	Ile	Thr	Pro	His	Ala	Leu	Pro	Met	Phe	Arg	Glu	Pro	Arg	Gln
	530					535				540					
Arg	Ser	Thr	Arg	Lys	Gln	Leu	Glu	Lys	Asp	Arg	Leu	Asp	Pro	Leu	Lys
545					550					555					560
Ser	His	Lys	Pro	Glu	Pro	Pro	Val	Ala	Gly	Pro	Gly	Arg	Gly	Gly	Arg
				565					570					575	
Val	Gly	Thr	His	Gly	Gly	Thr	Leu	Ser	Ser	Tyr	Ile	Val	Lys	Asn	Ile
			580				585						590		
Ala	Leu	Asp	Lys	Thr	Asp	Asp	Ser	Asn	Pro	Arg	Glu	Ala	Ile	Leu	Arg
		595					600					605			
His	Ala	Lys	Ala	Ala	Glu	Asp	Ser	Pro	Tyr	Trp	Val	Ser	Pro	Ala	Tyr
	610					615					620				
Ser	Lys	Thr	Gln	Pro	Lys	Thr	Met	Phe	Ala	Gln	Val	Glu	Ser	Asp	Asp
625					630					635					640
Glu	Glu	Ala	Lys	Asn	Glu	Pro	Glu	Trp	Lys	Lys	Arg	Lys	Ile		
				645					650						

<210> 10908  
 <211> 1658  
 <212> DNA  
 <213> Homo sapiens

09629469.072800

<400> 10908

```

agtcagatgg taagcaaaga tgcaaataaa aatatcagct tctgataagt gcagtggaga 60
aaaataaaca agaaaaaaaa tgctactgtg ttcatttctt agtatgtgcc aaaaaatgat 120
ctcattgaat cccaagata atcctaggaa ttatgtccta ttcctatcat cccattttac 180
agatgaagaa agtgaggcac agagaggcta ggggtggttg tgaaggtcac acagccagga 240
agttacagag tcagggtctg aactcaggac agcctgaaac cacagccctc gttcatattc 300
agtaaaaccc ggcagtgaac cccagcagc gttcacatcc ctggcacata ctgggcacat 360
atcaatttgg aaccagtggt aatgactgaa ttgtgtctct gccacaata cgagtgccat 420
aattttcttc atgcgaaatg gcagggtgtg taacctcttg caacatcatc agggctggag 480
gaggacttca gactgagctg ggacatgggg agagcctctg tccccagggt gttttctgct 540
gggcaactcc cctccagagt tcagttctgc tggcacatgc ctaagtgatt agctggctct 600
gagcctgagc atggcatagc tcaccagggt gggctctcac agctcccagg aaccagcaaa 660
tagccggtgg aggaaagcac tgattcccta ttgcctttt tctgccatta tcagcaccag 720
tggtctttcc aagatgagtt gatataagca tctgtcaga aaggatacag cctaataaat 780
ggaatgtccc ttccctcttc taggcctcag ttgctctatc tgtcaaatga ggagagtgga 840
ttaaagtgca cttttcaaac tgtctttctt ggctctacag agctttctta ggggtctgtg 900
aagatgatgg ggagctgatg attagaagag agtggctgtg gccaaatatt ggaaactcaa 960
tagtgtctct gaggatactt aggccttgag gggggatccc agtgcctaaa gggacctggc 1020
tgataatacg aaagaattca gcctctgggt agggactgga gcaaaactgag cccacgtttc 1080
atccaagggg gcggccactt ctcagctcca gtcccctggg gccacttggt gccagatcct 1140
ctgagttttt ggtaaaactt gaacatatgg atttttatgt taaatgttcc aattttaaaa 1200
agtcggtcat gaactcaaaa tcttctaaaa cagtgtgagg cagacaaaagc atatctgttg 1260
gttacatttg gccctaggcc agcaatttgg aactctgttc tagaaggctg gggatgaact 1320
ttattctctc cgtccttcca atttaatgag cattaggatt gtggtgagat gattggaaga 1380
agtgttggtg gctgggcgca gtggctcacg cactttcgga ggccgagggt ggtggatcat 1440
ttgaggccag gatttcgaga ccagcctgga caatatagtg aaacaccatc tgtactaaaa 1500
atacaaaaag tagctgggag tgctggtggg tgctgtaat cccagctact ccagaagctg 1560
aggcatgaga atcgcttaag cccaggaggc ggaggttgca gtgagctgag accgtgccac 1620
tgcaactccag cctgggagac agaattgagac tccgtctc 1658

```

<210> 10909

<211> 2530

<212> DNA

<213> Homo sapiens

<400> 10909

```

tttttttttt ttttttttga gatgggggtt cccactctgt tgccctggct ggagtgcagt 60
ggcgtgatc acggctcact gcagcctcgt ctgccaagc tctagagatt ctcctacctc 120
agtctcctga gtagctggga ccacaggcat gcaccaccat gtccagctaa ttggttaact 180
ttttctttgc agaaatgggg tcttactgtg ttgcctaagc tgatctcaaa ctcctaacct 240
caagtgatcc tcccacctg gccctgcaaa attctgggat tacaacatg agccattgtg 300
cccagctgag ggctggtttc tagaaatggt ggtatgccag gcttcatact ggggtcatgc 360
atgtggactg ggctcatttg cctgattgct ctagcaatat gtggggtagg gagaatcatg 420
ccccctctct cctcctcttc gaaaaatgtc cacatcccaa tccctggaag ctgtgaatat 480
gttcagttat atggcagttg ggaattaagg ttgcgagtca gctgtccttg agatggggag 540
attatcctgg actatccagg tgggactttt gtaatcgcaa aggtcctcgg aagtgaagaa 600

```

```

ggaagtcagg agagtcagtg tcagagtgat gccgtgggac acagtcttca gggctgttgc 660
tgccttgaag atgcaggaag gggccgtgag ocaaggaatg caggtggcct ctagaagctg 720
gaaaaggcaa gaaaatggat tctccttgag agcctccagc agaaatgagg ccctgccaac 780
accttgactt gtagcccagt gagacccaaa catctaacat ctaaaactat aaataagaat 840
ttgtgttgtt ttaagtcacc acgtacatag tcatttgtta cagcaagcta tagcaaacaa 900
tccaaatgga gacctgtctc tggtttggaa atgcgagaca ttcttattta tttgtggaat 960
ataatataat ggaaaattta tggaatataa gtaactccaa gaagattctt gtcaacatta 1020
attctgagat ttttctaagc taatttattt tactacagta aggccaggaa ctttattgct 1080
ttgctgttgt ctctcactg cctcgatcag tgccataatc attccttttt gaatgaatga 1140
atcttttcta accaaactca tgaaaaaccc taagaaacac ccccccacttt ttttgagaca 1200
gaatctcatt ttgtcaccca ggctggagtg cagtggatca cagctcactg cagcctcaac 1260
ctcccaagtt caagtgatcc tccccacttg gcttcccaag tagctgggac cacaggtgca 1320
caccaccacg tctggctaatt tttttaattt tttttgtag aaatcaggtc ttgctatgtt 1380
gcctagactg gtctcaaact cctgggctca agtgaacctc ccgccttggc cttccaaaat 1440
gctctcatta caggtgtgat ccactgtgct tggccccacc ttttcaaaaa agaatttatg 1500
ctaaattgta aatgttaaat tgaggctctt gttatagaca aggcataatca tacttcgcat 1560
tatcattcaa agatgagagg ctttaattaga gaattttcta cagttgggtt ttaacaagag 1620
ccattcttaa ctctccttggg gtctaagaac ttcttggtag ctacacatgg ttgaaatgtt 1680
aaccctgtac tttgctgctt agcaagactg ctgtaatgct gatatggttt ggctctgtgc 1740
ccccaccaa atctcatctc gaaattgtaa tccccacaca tcgagggagg gacctgatgg 1800
gagatgattg gatcatggag gcggtttccc ccattgctgtt ctctgtatag tgagttctcg 1860
cgatagttag ttctcgcaag atctgatggt ttaaaagtgt ttggcagttc cccctagct 1920
ctctctctct ctctctctct ctcccccta atgccatgta aggcgtgcct tgcttccct 1980
ttgccttccg ccattgatttt aagtttctct gggcctccca cactatgcag aactgtgagt 2040
caattaaccc tcttttctgt ataaagaact acctgagact gggtaattca taaagaaaat 2100
aggcttaatt ggctgatgga tcttcaggtc atataggaag catggttgca gaggcctcag 2160
gaaacttaca atcatggcag aagggtgaatg ggaagcagac acagcctgca tggctgaagc 2220
aggaggaaga gagagaaggg ggaggtgcta cacactttta aacaaccaga tctcatgaga 2280
actcaccatc acaagaacag caagggggaa gtttgccccc acgatccaat cacttcccac 2340
caggcctgtc ctccaacatt gggggttata attcaacatg agattggggc aagaacacaa 2400
atccaaacca tatcaggctg ggcacaggga ctcatgcctg taatcctggc actttgggag 2460
gccaaagcgg aggattgttt gagtccagga gtttgagacc agotttgtca acatagcgag 2520
aacgactcag                                     2530

```

<210> 10910  
 <211> 1864  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (706).. (1023)

```

<400> 10910
gcaataaggt aacaggtgtg ccacacctctc agggctgcta tgaggacaac tgaggccaca 60
cacctggctc tcaataagtg agtgggtgctc tgtgagcttc tggcgagtaa ggggcaccct 120
actcattgcg gccggggggcc tccccagca aacgggtgga aagaggcctg agcccatcc 180

```

```

ccagtttctg cccctgctat ctccaccag gatccaccag aagatatgaa gcaggaccgg 240
gacattcagg cagtggcgac ctccctcctg ccactgacag aagccaacct acgcatgttt 300
caacgtgccc aggacgacct tatccctgct gtggaccggc agtttgctg ctcctcctgc 360
gaccacgtct ggtggcgccg cgtgccccag cggaaggaga tgtgaccgac tgcagaggcc 420
gcgccgcctc ccccgctccga ggtctgcgcg ctccgccgca ggggtgcagac ccggggcgcc 480
cgccctgggtt tggggcgcaa gagcagaggc ggagccaggc cggagccagc gcgccgggtc 540
ccccctgaat cgaaagcgaa acagggggccg gggaggaagg gcggagccgg ccccgaggca 600
ccgccccctg ccctgcgcgg ctgctggacc gacggggcgca cccaggtagg ggggcggctg 660
agccgcgcag tgcggacct cgcggggaac tgcgccgcg ccaccatgtc tcaggaaggt 720
gtggagctgg agaagagcgt ccggcgccctc cgggagaagt ttcattggaa ggtatcctcc 780
aagaaggcgg gggctctgat gaggaaattc ggcagcgacc acacgggagt ggggcgctcc 840
atcgtgtacg gggtaaagca aaaagatggc caagaactaa gtaacgatct ggatgccag 900
gtaacctatc ccctcccctc gcaaaggacc gggtcacggg agggagagca agagggggga 960
ccgacccgt tcatggtgac tgacccccct ctgaaacagg agggaccagg cattgtcggg 1020
ccataactca tcaccaatc tcactttttc acctctccat catttgtccg gccagggagc 1080
ctgcgaacag taggcgctca ttatgtgctg attgtattca atgggggaga gagccatgaa 1140
actaagcaat gaaaggagcc aggtattattg ccactatagc gggggcgagc aggtcagaga 1200
aggcttactg gaggaggagg taccaagtct taaaggatgg ggaggagtga gccctgggag 1260
gggaaaggga aagaaaggca ggggtcttgg ggtgggggag ggaatggcat aagcaaaggc 1320
tgggaggtgg ggaagggtt ttagtggcag tctctagaaa ggctgggatg agcagaggat 1380
tggggaggag agagaggcag gggaatggaa ccttgtgtt gaatgaatga atgaatgaat 1440
gaatgaatga atgaatgaat gaatggcttt gaagcacagg tgcactatgg ctactttgct 1500
tctttgacag ctttgggtgat gggaaacgtg tggatttagc ctgcctgaaa ggcttagtgt 1560
agggtgttta aagagtataa taggccaggc gcgggtggctc acgcctgcaa tccaacatt 1620
ttgggaggcc gaggcggcg gatcacctga ggtcgggagt ttgagaccag cctgaccaac 1680
atggagaaac ccgtctctac taaaaaatac aaaattagct gggcatggtg gcgcatgcct 1740
gtaatcccag ctactcggga ggctgaggca ggagaatcac ttgaaccagc gaggcggagg 1800
ttgcagttag ctgagatcac accattgcac tccagcctgg gcaacaagag cgaaactctg 1860
tctc

```

<210> 10911  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 10911

Met	Ser	Gln	Glu	Gly	Val	Glu	Leu	Glu	Lys	Ser	Val	Arg	Arg	Leu	Arg
1				5					10					15	
Glu	Lys	Phe	His	Gly	Lys	Val	Ser	Ser	Lys	Lys	Ala	Gly	Ala	Leu	Met
			20						25					30	
Arg	Lys	Phe	Gly	Ser	Asp	His	Thr	Gly	Val	Gly	Arg	Ser	Ile	Val	Tyr
			35						40					45	
Gly	Val	Lys	Gln	Lys	Asp	Gly	Gln	Glu	Leu	Ser	Asn	Asp	Leu	Asp	Ala
			50						55					60	
Gln	Val	Thr	Tyr	Pro	Leu	Pro	Ser	Gln	Arg	Thr	Gly	Ser	Arg	Glu	Gly
			65						70					75	
Glu	Gln	Glu	Gly	Gly	Pro	Asp	Pro	Phe	Met	Val	Thr	Asp	Pro	Pro	Leu

09629469.072600

85 90 95  
Lys Gln Glu Gly Pro Gly Ile Val Gly Pro  
100 105

<210> 10912  
<211> 2372  
<212> DNA  
<213> Homo sapiens

<400> 10912  
tttaaagatg tggctaacta gctagtgatg catgaacaat tgtttttagaa acctaccatt 60  
gtggtcctgt tggatatctag gaagtttttt catttggttg tggcaactga gtgatctgtt 120  
atgtctactt ttctctctct cctgtcccct ccccatctt ottctctctc ttttctttct 180  
cccttttttt cagtcaaggt agacttgaga taggggactt gcatggctat agtagatcat 240  
aatacatgag gccccccaaa taagagagtg aaacattgtc tgggatgtat tttctgtctc 300  
aactcatcgt catttttctg tgtatttctt acattagccc ccagaaaagc atttttcaaa 360  
gactttgaga accaaaggtt ctctctgtaa ggaaatgtgt taacctgatt tcctgtttct 420  
catgtaattt tctctcttaa agccataata atagtgtcag aggcagcttt ctagttagt 480  
tgagtaatgt ggttactgta ttttctattt ttattttaat gtgcttttcc tgcgtgtgat 540  
tttttttttc tttcttgatt ttaaaaacag cagttgagta aatgtggta tttgaagact 600  
ggcgtatatt gcatcttctc tgagatgcaa ttttgaagga aggcctctgt cacaataggc 660  
atttttttcc agattcctta gtaggataaa taggagaatg tttggaacac agatcagtga 720  
caatattggt ttatgggtcat ggtagggtcag gcttcctcag agaaactgac aatagagtat 780  
cccatagggt ttgtctctag agagtctgtt aatatgaagt ctgtttattt tatgatgtgt 840  
tgataagaaa attaggtaac cagggaagca ccttaaattg ctgcattcat ttgcctcttt 900  
ttaagcatgc acacacattg agaaattttg aattaacaac aacaaaatac acttaaattc 960  
ccctggaaag agtaattaag agctacttgt ctctgtgctg tcatctctgc cagaattaga 1020  
gttcctgctg agtatattcc attgagtcag ccatcattcc atcaccagca gggattgctt 1080  
ttctgctttt ccacgtattg acatgtgagg gaatgtctgt cttgcagtag ccatgggctt 1140  
gtgccagatt ttgagatcca tagaggcagt tctgggagct tttcaattct gaatcagggt 1200  
tccaattcat aatagctgag ccagggaac cgggttgaat ctgtggccaa aacctggta 1260  
aaaaactttt tccccctttc ctttcttgca gtgctttatt gctttaaaat atgagtgctt 1320  
ctgtccattg attctctggt gactttccgt tggattcaaa ttgtggtctc ttaggtgaaa 1380  
aggtcagtgt gttattcatt cagccacaca tcgatggaga ttaactgaga gcagtacaag 1440  
acatttgat cctgccagac ctagggcacc tgaaggaggt ttatttcttt tctctctagc 1500  
ctttactatg cctgctgcag aagaggatgg ccctgtcttc tgggagtagg ggagggtttt 1560  
gattggctgt atgttaactg cctcaaattc atggccatag ggcgagtaag aacctggag 1620  
aatcaaacat gtcactttt tagcatcacc tgatttagtg cttttcctca ggtctgagat 1680  
gtctcagggg gcccttttcc cttgcagcac tgatctttca atgaggtgct agtgtctgtc 1740  
ctgagcaata acaaggagaa accatgaagt gtgaacagct cttattaggg gggtaaatgt 1800  
cattagcgcc tttgtagcct tctctgcaat ctgaatgctc ctgtcaaaag agcgacttac 1860  
tgaagcctcc tttaaaatca cataaatgga atttaagatg ctgaagtttt acattttaat 1920  
taagcaaggc cattaactcc ctttacatat acactttttt gtagccagt atgcttgtat 1980  
gccttataag gctattgaaa aattatccac gaaaattatt ttaaggattt gagaaatagt 2040  
tggttaactt taagtcaaag ttttagatat agagacccta tactcatgtg cccaaccatt 2100  
gtaatatgag tattgacgta tatgatagga gaaaacacta gcattttgag ttaataagta 2160  
ggtcagtttg gattaatgga aagtttgaag cttagagtgt ttaaataatg attttattct 2220

009220.69462960

tttcaataca	caagtggaaa	tgttttctcca	gtctaaattc	cccctagtat	tctcctgaaa	2280
caaaatTTTT	atatgcagat	atttgcttct	tttgcaagtt	tgagaatttc	acagtaactt	2340
ctggttaccc	tggttTgtgt	cttgcagtta	cc			2372

<210> 10913  
 <211> 2132  
 <212> DNA  
 <213> Homo sapiens

<400> 10913

catgtctgga	gaccattttc	aacctgaatt	tatctctgat	gccagtcccc	aagatgagcc	60
attggttgct	tattcttttg	ggtcacccaa	gatggcagca	ctgaaggcca	catggctggg	120
gttttctata	ccttgggatt	acatgttata	caaaacagct	gactgacaat	gcagaatgag	180
ggaagggaca	cctccaaatt	ccttcagcct	cccaaagtgc	tgggattaca	ggcatgaccc	240
accgctcccg	gccttgTTTT	cgttttaaag	tcgtcttctt	ttaatgtaat	cattttgaac	300
atgtgtgaaa	gttgatcata	cgaattggat	caatcttgaa	atactcaacc	aaaagacagt	360
cgagaagcca	gggggagaaa	gaactcaggg	cacaaaatat	tgggtccgaga	atggaattct	420
ctgtaagcct	agttgctgaa	atttcctgct	gtaaccagaa	gccagtttta	tctaacggct	480
actgaaacac	ccactgtgtt	ttgctcactc	cctcactcac	cgatcaaaac	ctgtacctc	540
cccaagactt	tactagtgcc	gataaacctt	ctcaaagagc	aaccagtatc	acttccctgt	600
ttataaaacc	tctaaccatc	tctttgttct	ttgaacatgc	tgaaaaccac	ctggtctgca	660
tgtatgcccg	aatttgtaat	tcttttctct	caaatgaaaa	tttaatttta	gggattcatt	720
tctatatttt	cacatatgta	gtattattat	ttccttatat	gtgtaagggt	aatttatggt	780
atttgagtgt	gcaagaaaat	atatttttaa	agctttcatt	tttccccag	tgaatgattt	840
agaatttttt	atgtaaatat	acagaatgtt	ttttcttact	tttataagga	agcagctgtc	900
taaaatgcag	tggggtttgt	tttgcaatgt	tttaaacaga	gttttagtat	tgctattaaa	960
agaagttact	ttgcttttaa	agaaaacttg	ctgcttaaaa	taagcaaaaa	ttggatgcgt	1020
aaagtaatat	ttacagatat	ggggagatgt	aataaaacaa	tattaacttg	gtttcttggt	1080
tttgctgtat	ttagagatta	aataattcta	agatgatcac	tttgcaaaat	tatgcttatg	1140
gctggcatgg	aaatagaaat	actcaattat	gtctttgttg	tattaatggg	gaatattttg	1200
gacaatgttt	cattatcaaa	ttgtcgacat	cattaatata	tattgtaatg	ttgggaagag	1260
atcactattt	tgaagcacag	ctttacagat	gagtatctat	gatacatatg	tataataaat	1320
tttgatcggg	tattaaaagt	attagaaggt	ggttataatt	gcagagtatt	ccatgaatag	1380
tacactgaca	caggggtttt	actttgagga	ccagtgtagt	caagggaaaa	catgagttaa	1440
aaagaaaagc	aggcaatatt	gcagtcttga	ttctgccact	tacaggatag	ataatgcctg	1500
aactttaatg	acaagatgat	ccaaccataa	agggtgctctg	tgcttcacag	tgaatctttt	1560
ccccatgcag	gagtgtgctc	ccctacaaac	gttaagactg	atcatttcaa	aaatctatta	1620
gctatatcaa	aagccitaca	ttttaatata	ggttgaacca	aaatttcaat	tccagtaact	1680
tctattgtaa	ccattatttt	tgtgtatgtc	ttcaagaatg	ttcattggat	ttttgtttgt	1740
aatagtaaaa	taccggatac	atttcacgtg	tccttcagta	ttgatttggt	tgaatattgg	1800
gtcataatgg	ttgagaagca	tggacactag	agccagaatg	cttggatatg	aatcctggat	1860
ctgtcactta	cttctgtgtg	acctttgaaa	ggctacttat	ttcctctctt	agctttctca	1920
ttaaaatcaa	tgaacaatgc	cagcctcatg	gggttggttga	atgattaaat	tagttaatat	1980
acctaaagta	catagaacac	tgcttgcaca	tagtaaaaaga	attataagtg	tgaggtagtt	2040
ggtaaaatta	tgtagttaga	tatactaccg	aacaatatct	aatctctttt	tagggaaata	2100
aagtttgtgc	atatatataa	tcccgaacaa	tg			2132

09629469.072800

<210> 10914  
<211> 1622  
<212> DNA  
<213> Homo sapiens

<400> 10914  
aacaataaat gatgacagt atgatgatat gatccatgtg atttcttggg catggcttta 60  
tgtcaagatt tccttttagaa agtgaaataa gtttaggtaa cacacagAAC aaacacagca 120  
agaattgatg acttagacaa taccgatttc tttttttatt gttattatac ttttaagttct 180  
ggggtacatg tgcagacctt gcagatttgt tacacaggta tacacgtgcc atggtgggtt 240  
gctgccccca tgaacctgtt atctacattt ggtattttct ctaatgctat ccctcctcta 300  
gccgtgcaac ctccaacagg cccagtatg tgatgttccc ctccctgtgt ccatgtgttc 360  
tcattgttca actcccaactt acaagtgaga acatgcagtg tttggtttag gtttcctgtg 420  
ttagtttgct gagaatgatg gcttcaaaaa aaaaggtttag gtttcttttg ttttgttttg 480  
tttgagacgg aattttgctc ttgttgccca ggctggagtg caacagtgtg atcttggctc 540  
actgcaacct ccacctccca ggttcaagcg attctcctgc ctacgcctcc tgagtagctg 600  
ggattacagt catgtgccac cagcccgagc taattttgta ttttttagtag agtcgggggt 660  
tctccatgtt ggacaggctg gtcctgaact cccaacctca ggtgatctgc ccgcctcggc 720  
ctcccaaagt gcaaaagggt agttctatac ataaaatata ttttcttact tagtaatgtt 780  
cctaatttaa agaatacttg tagaggatta ccatagactt gtgtattaat tttctagggt 840  
tgccataata aattatcaca aaccaaatag tattcaatac tggaaaaatg ttctctcaca 900  
attctggagg ttacatgtcc aaaatcaagg tgttggcagg gccatgttcc cctgaagggt 960  
tctagggtag gatcctccct tgcattcttc cagactcctg cagttgtcaa cactccgtgg 1020  
tgttccttga cttgctgcct cactctaatt tctgcctcca tctcccatg gctgtgttcc 1080  
ttctgtgtgt gacggtctct atggtttttc ttttaaggata ctagtgattg gatttagggc 1140  
caccctaate tgtataactt acatcttaat tacatctgca aagactctt ttcttaagag 1200  
ggccacattc acaggttact ggaggtagga cttcgacaca ccgttttggg gaacacaatt 1260  
caatccgtta taacgtgtat ctatttttaa ttgaattttt gcatgattac agaataaccg 1320  
tttataaagt tttgaaaacc cagaagcaaa aagaagaaaa taaagcatcc ctgttaattc 1380  
taccaaaatg atacttattc tagttttttac attttcccta tgcatatacg tagaggaaca 1440  
cacatacata gttgagtttc tttttctttt aatttagtct ttgtggggga catgttgttg 1500  
tactatggat atataggggt gactgaaaac atggcccccA ccatcagaga ataagaatga 1560  
aagagagaga gagaatccta atcacacaaa taaacacata attccactgg acaactgcta 1620  
tt 1622

<210> 10915  
<211> 1712  
<212> DNA  
<213> Homo sapiens

<400> 10915  
agctttgatg aagagtgaat actgatggag aaatatgata ggacaaaaag ggtgtgatct 60  
agtgtagata aactggggaa tttagcaagg cctgtttgtt caggttcctc tctgtgacct 120  
ttcatcttca gagatgagca tgttcctttc ttccagggat cgggaggccc tcacatgagt 180  
gtcttctgac ctgcttcttg ggaatgttgg aaaagctttc ctaagctgta tgccctgcat 240  
cggggagaag catatgtgtg ggtgaggagg ggaggtcaga gagactttcc tgcttctgtt 300

```

ttttaatat gccaaaggtgc cgtatTTTTga gtagtgtgtc ctgaatccca tcatcctttt 360
caatgtaact tttcattaaa tgcagtgttc taggataagg gttagcaaat gacttctaaa 420
aaaacaccag atagtaacca tctttgtctt tgcagcccat aaagtatctg ttgcaactac 480
tcaactctgt tgctgcagca caaaagcaat agtagaaaat acatagacca agaagagtgg 540
ctatgttcca ataaaacatt tttttagat agtaaaattt caatttctg taatttttac 600
attataatat tttacttatt ttttttccaa ccattgaaaa tgaaagaacc attcttagct 660
tactggttct acaaaaacag atggcaacct ggatttggcc tgcgtgtgta gtttgtcaac 720
ccctcttcta tgacattaca ttcacacaga caaaactaaa cccaaacaaa acaataaaaa 780
tgcattcttc tgacaatata aagacatata ttaaaatatt taaagtcaaa caaaaatgga 840
cagtttctga catagcttat agaacattgt ttgtcaaaact gcagggattt gaaataatga 900
atagtaaaaa atagtgtgaaa aaaaacttca aataaatcac agctaatttt tgaaaatcca 960
gtgttaaaat gtgatgatca gagtcaagaa aaattgtgaa agatttgaaa attggcaaaa 1020
gtaaagatta tttttctctg tattgcactt ctccaagttc tgtccagtg tcaagtgttt 1080
gaactatttt cccactctgc aaatggtaga aaattgataa tgaaaataac tcttgtccat 1140
gaaaatgcaa atacattttg tctagtggaa tgcacttgat gottcatcca ggaatacaac 1200
attttgcata tatttgtaaa tccatttcag caccagcatt ccttattgac cctattcatc 1260
catccatcca tccgtccatc catccatcca tccatccatc catcttaatc tgtctatcat 1320
ttatctgtct attgtctatt tatctatggg atttttcctt tgaatcaaat gtaacatatg 1380
actatttctt gagttaaata aaatcttttg tacatttcca tctgatattt gcatgagtct 1440
tgtcttcaact ttataaaaata tttctccact ttgggagtc aaggcagggtg gatcacgagg 1500
tcaagagttc aagaccagcc tggccaacat ggtgaaaccc cgtctctact aaaaatacaa 1560
aaattagccg ggtgtgtgtg tgacgcctg taatcccagc tactcaggag gctgaggtag 1620
gagaatcact tgaaccagag aggtggaggt tacagtgagc tgagatcgct ccactgcact 1680
ccagcctggg caacagattg agactctgtc tc 1712

```

<210> 10916  
 <211> 1692  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (7)..(777)

```

<400> 10916
agcaagatgg cggctccctg ggctccctg cgcctggctg ccccatgtg gaatgggcgt 60
atcaggggca tccatgcctt gggtgcggca gtggccccag agggcagtc gaagaagaaa 120
aggacaatac tccagttcct gaccaactat ttctacgatg tggaggctct gagggattac 180
ttgtccaaa gggagatgta caagggtgat gagaaaaatc gatcttacac ctggctggag 240
aagcaacatg gtccatacgg cgcagggtgc tttttcatcc tgaagcaggg aggcgcagtc 300
aagtttcgag acaaggagtg gatcaggcca gataagtatg gccatttctc tcaggagttc 360
tggaatttct gtgaagtgcc tgtcgaagct gtggatgccc gtgactgtga catcaactac 420
gagggcctgg ataacctcct ccgcctgaag gagctccagt ccttgtcgct gcagcgctgc 480
tcccacgtgg acgactgggt tctcagccgc ctctaccac tggccgactc gttgcaggag 540
ctctcgtggt ccggttgccc ccgcctctcc gaacggggcc tgcctgcct ccaccacctc 600
cagaacctcc gcaggctgga catctcgga ctcctgcgc tgtccaaccc tggcctcact 660
cagatattgg tggaggagat gctgcccatt tgcgaggttg tgggagtcga ctgggctgag 720

```

00629469.072800



```

ggcctgaagt cagggccgga ggagcagcct cgggacacag ccagccctgt ccctgcctag 780
cctttagccc tgtccccact cacgtggcct ctcagcgggc tgcattggaat gtctggtagc 840
tcaccacact tctggcttcc atttgtcttc actcaacgtc aggggtggggg agtgggtgctg 900
gccaatcaca ggagagagcg tgagttccca gtatttattc ctggctgccc ttggctaaag 960
gtcacagctc ctgtcaccct gtcaggcagc cctttccatg cccctgttca ggcctgggga 1020
ggtaaaggct caggctgtta gtagccgcag agagccacac tcaccttgtc aggagactct 1080
tctcaaaactg tccttatgtg agtgcaactgc catttcttgc agggaccctg actgacacag 1140
gggctactac tgacacttta cagggatggg tctccccctg gcagggccgc tgtgccact 1200
gcaggacatg cagcatcctt cgcacctc cactcactaa aggcagcgc accccaggcc 1260
ccatagtatt gctggttatg gatttattga ctttatgttc caaattcagc tttttcagtt 1320
ggcagttttt tgaaggggga taagctttgt cagtagaggg caccaaacag gcattatagg 1380
aggaaaggcg cctccttcgt ggttcttgtt ggttgtgtct ctgcctctgg acgccgcagt 1440
gcatgtggct tccccagcac ccagctcctg aagcaccagg cggtcagcag ctgcccttgg 1500
caccctccag ccctcagaag ttgcgttaga gacacagcgc ctccactgag gcacctctct 1560
gggaataacg ttccccagca ccccaaattg atttcagtc aattcagaag cattttacca 1620
gtgaagccct cattattcca gttcactgtt aaagccagta attctctata ttaaactttc 1680
cctgttcaag tt 1692

```

<210> 10917  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 10917

Met	Ala	Ala	Pro	Trp	Ala	Ser	Leu	Arg	Leu	Val	Ala	Pro	Met	Trp	Asn
1				5					10					15	
Gly	Arg	Ile	Arg	Gly	Ile	His	Arg	Leu	Gly	Ala	Ala	Val	Ala	Pro	Glu
			20					25					30		
Gly	Ser	Gln	Lys	Lys	Lys	Arg	Thr	Ile	Leu	Gln	Phe	Leu	Thr	Asn	Tyr
		35					40					45			
Phe	Tyr	Asp	Val	Glu	Ala	Leu	Arg	Asp	Tyr	Leu	Leu	Gln	Arg	Glu	Met
	50					55					60				
Tyr	Lys	Val	His	Glu	Lys	Asn	Arg	Ser	Tyr	Thr	Trp	Leu	Glu	Lys	Gln
	65					70				75				80	
His	Gly	Pro	Tyr	Gly	Ala	Gly	Ala	Phe	Phe	Ile	Leu	Lys	Gln	Gly	Gly
				85				90					95		
Ala	Val	Lys	Phe	Arg	Asp	Lys	Glu	Trp	Ile	Arg	Pro	Asp	Lys	Tyr	Gly
			100					105				110			
His	Phe	Ser	Gln	Glu	Phe	Trp	Asn	Phe	Cys	Glu	Val	Pro	Val	Glu	Ala
	115						120					125			
Val	Asp	Ala	Gly	Asp	Cys	Asp	Ile	Asn	Tyr	Glu	Gly	Leu	Asp	Asn	Leu
	130					135					140				
Leu	Arg	Leu	Lys	Glu	Leu	Gln	Ser	Leu	Ser	Leu	Gln	Arg	Cys	Ser	His
	145				150					155				160	
Val	Asp	Asp	Trp	Cys	Leu	Ser	Arg	Leu	Tyr	Pro	Leu	Ala	Asp	Ser	Leu
				165					170					175	
Gln	Glu	Leu	Ser	Leu	Ala	Gly	Cys	Pro	Arg	Ile	Ser	Glu	Arg	Gly	Leu

09629469.072800

	180		185		190
Ala Cys Leu His His Leu Gln Asn Leu Arg Arg Leu Asp Ile Ser Asp					
	195		200		205
Leu Pro Ala Val Ser Asn Pro Gly Leu Thr Gln Ile Leu Val Glu Glu					
	210		215		220
Met Leu Pro Asn Cys Glu Val Val Gly Val Asp Trp Ala Glu Gly Leu					
225		230		235	240
Lys Ser Gly Pro Glu Glu Gln Pro Arg Asp Thr Ala Ser Pro Val Pro					
	245		250		255
Ala					

<210> 10918  
 <211> 3023  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (12).. (1997)

<400> 10918

tgagtgatgc	tatggaggag	atcgacatgc	aacaaggcac	ctcgtcagta	aaaccacagg	60
ctaattggtgt	tttggatgaa	aaatctcaaa	ttcaggagcc	atgttggtca	gacctcttcc	120
tgtttcctga	cgagagtggg	aatgtatccc	aggagtccgg	ccccacctat	gcctcattct	180
ctcaccattt	catcagtgat	gcaatgacag	gtgtgcccac	tgagaatgat	gacttttgca	240
ttctttttgc	accaaaagca	gccatgcagg	agaaggaaga	agaaccagtt	ataaaaaatca	300
tggttgatga	tgcaattgtg	ataagagaca	attatttcag	tctgcccgtt	aataagaccg	360
atacgagcaa	agccccctta	cactttccca	ttcctgtgat	tcgctatgtg	gtgaaggagg	420
tctctcttgt	ctggcatctt	tatggaggaa	aggattttgg	aacagtccct	cccactttct	480
cggtctaaaag	ttatattagt	ccccacagtt	cgcccttctca	cacacccacg	agacatggac	540
gtaatacagt	atgtggggga	aaaggaagga	accatgactt	tttaatggaa	atacagctaa	600
gcaaggtgaa	gtttcagcat	gaagtctacc	cgccatgcaa	acctgattgt	gattccagcc	660
tctcagaaca	cccagttctc	cggcagggtgt	tcattgttca	ggatcttgag	attcgagatc	720
gtttggcaac	atcacaatg	aataaatttt	tatacctgta	ttgcagtaaa	gaaatgcctc	780
gaaaagctca	ctccaacatg	ttgacagtga	aagccttaca	cgtgtgtcca	gaatctggca	840
ggtccccaca	ggagtgtctg	ttgagagtgt	cgctgatgcc	gctccgcctc	aatattgacc	900
aggatgcttt	gttcttcctg	aaggattttct	tcacaagtct	ttctgcagaa	gtagagcttc	960
aaatgactcc	agatccagaa	gttaaaaagt	ctcctggagc	tgatgtcacc	tgcagtttgc	1020
caaggcattt	gagtacctca	aaggagccaa	atctggttat	ttctttctct	gggccaaaac	1080
agccttccca	aaatgatagt	gccaattcag	tggaaagtgt	taatggcatg	gaagagaaga	1140
acttctctgc	tgaagaagca	tcttttaggg	atcagcctgt	gttttttaga	gaatttagat	1200
tcacgtcaga	agttcccatt	cgacttgatt	atcatggcaa	acatgtatca	atggatcagg	1260
gtacgctagc	tgggattttg	atttggtctgg	ctcagttaaa	ctgctctgaa	ctaaagctca	1320
agaggctttc	ctatcgacat	ggtttactag	gcgttgacaa	attattctca	tatgcaatca	1380
ctgagtggct	taatgacatt	aagaagaacc	agctaccagg	aatcctggga	ggtgttggac	1440
ctatgcattc	actagtacaa	ttagtacaa	gcctagagga	cttggtctgg	ctcccaatag	1500

008220" 69462960

```

agcagtaccg gaaggatggc cgcattgtca gagggtttca gagaggcgct gcttcctttg 1560
gtacctcgac agcgatggct gctctagaac tcacaaacag aatggttcaa accatacagg 1620
cagctgcaga gactgcttat gatatgggtg ctcttggtac ctttctatc gagcccaaga 1680
agaccaaaag gtttcctcat caccggttag ccaccagcc agtagacctg aggggaaggtg 1740
tggccaaggc ctacagtgtt gtgaaagagg gaatcacaga cacggctcag accatttatg 1800
aaactgcggc tcgagaacac gagagcagag gggtgactgg tgccgtgggc gaggttctgc 1860
gccagattcc tccggcagtg gtgaaacctc tgattgttgc cacagaagca acgtcaaacg 1920
tgctgggtgg catgagaaac caaatggggc cagatgtccg gcaagacgag tcacagaaat 1980
ggcgccacgg ggatgactga tggcttgga ctagacagtgt gaagataagg agagtggaac 2040
caggagctca gagtcttgac agcagcttca gaggaagctc gtttaatttt atttgtctca 2100
tctcaggaac aaaagcattt tttagttaaa taatttaaca tcaaaacaac atgcaaccaa 2160
aaacttctga catttatagt tgatacttgc ctatagaaat gtttggtggc tgggtgtcaa 2220
ggtccttaaa gcatttgctg ccaagttagt ggaaggctca cttttgttaa gatgactgta 2280
atttctcttg ttaccgacga gagatcattg gaagctgcct tctaacactt tgtgtagctc 2340
tgtggagttg gattttctta aggttttaaa agaatcacag cttcggaact tttactgaa 2400
aatgagagac agaagccaca ggggaagcaa agcaaataag attttcaata taaatatcag 2460
tgtggaaaaa taacctattc tgttgaattt agtgttcatt cacttgagaa caacattatt 2520
tccatttact ccgaaaatcc ttctgtgggg gtttgagaaa gtgaatgttg cagacatgtt 2580
ctgttgtgtt gcactttatc ctgtgtttat gtgtatgtgt ttttagatta attcaagttg 2640
tgtgctatat ttcttgtata atttacaaaag ttacacaaaa tataaagagc agtaaacttg 2700
tctgaaagtt tttggcaaag gaaggtaact tcaatgtaat agcttccttt aagagtacag 2760
gaaaatgcat tctgtaatga agtggggccc atgtaattgt ttatatittc agttttaagc 2820
aggtatagtg caggcttggt aggaatgtgt ggaagggaag attggaagtg atttttctc 2880
ttttaaaagt aaacaaaatt cttcaaatat gccctagtta actatttcag cataccattt 2940
ttacttggtt aacagtgtac attttgataa cctatcagga atgaataaag tattttttatt 3000
taaaggtgaa aaaaaaaaaa aac 3023

```

<210> 10919  
 <211> 662  
 <212> PRT  
 <213> Homo sapiens

<400> 10919  
 Met Glu Glu Ile Asp Met Gln Gln Gly Thr Ser Ser Val Lys Pro Gln  
 1 5 10 15  
 Ala Asn Gly Val Leu Asp Glu Lys Ser Gln Ile Gln Glu Pro Cys Cys  
 20 25 30  
 Ser Asp Leu Phe Leu Phe Pro Asp Glu Ser Gly Asn Val Ser Gln Glu  
 35 40 45  
 Ser Gly Pro Thr Tyr Ala Ser Phe Ser His His Phe Ile Ser Asp Ala  
 50 55 60  
 Met Thr Gly Val Pro Thr Glu Asn Asp Asp Phe Cys Ile Leu Phe Ala  
 65 70 75 80  
 Pro Lys Ala Ala Met Gln Glu Lys Glu Glu Glu Pro Val Ile Lys Ile  
 85 90 95  
 Met Val Asp Asp Ala Ile Val Ile Arg Asp Asn Tyr Phe Ser Leu Pro  
 100 105 110

09629469.072800

Val	Asn	Lys	Thr	Asp	Thr	Ser	Lys	Ala	Pro	Leu	His	Phe	Pro	Ile	Pro		
		115					120					125					
Val	Ile	Arg	Tyr	Val	Val	Lys	Glu	Val	Ser	Leu	Val	Trp	His	Leu	Tyr		
		130				135					140						
Gly	Gly	Lys	Asp	Phe	Gly	Thr	Val	Pro	Pro	Thr	Ser	Pro	Ala	Lys	Ser		
145					150					155					160		
Tyr	Ile	Ser	Pro	His	Ser	Ser	Pro	Ser	His	Thr	Pro	Thr	Arg	His	Gly		
				165					170					175			
Arg	Asn	Thr	Val	Cys	Gly	Gly	Lys	Gly	Arg	Asn	His	Asp	Phe	Leu	Met		
		180						185					190				
Glu	Ile	Gln	Leu	Ser	Lys	Val	Lys	Phe	Gln	His	Glu	Val	Tyr	Pro	Pro		
		195					200					205					
Cys	Lys	Pro	Asp	Cys	Asp	Ser	Ser	Leu	Ser	Glu	His	Pro	Val	Ser	Arg		
		210				215					220						
Gln	Val	Phe	Ile	Val	Gln	Asp	Leu	Glu	Ile	Arg	Asp	Arg	Leu	Ala	Thr		
225					230					235					240		
Ser	Gln	Met	Asn	Lys	Phe	Leu	Tyr	Leu	Tyr	Cys	Ser	Lys	Glu	Met	Pro		
			245						250					255			
Arg	Lys	Ala	His	Ser	Asn	Met	Leu	Thr	Val	Lys	Ala	Leu	His	Val	Cys		
		260						265					270				
Pro	Glu	Ser	Gly	Arg	Ser	Pro	Gln	Glu	Cys	Cys	Leu	Arg	Val	Ser	Leu		
		275				280						285					
Met	Pro	Leu	Arg	Leu	Asn	Ile	Asp	Gln	Asp	Ala	Leu	Phe	Phe	Leu	Lys		
		290			295						300						
Asp	Phe	Phe	Thr	Ser	Leu	Ser	Ala	Glu	Val	Glu	Leu	Gln	Met	Thr	Pro		
305					310					315					320		
Asp	Pro	Glu	Val	Lys	Lys	Ser	Pro	Gly	Ala	Asp	Val	Thr	Cys	Ser	Leu		
				325					330					335			
Pro	Arg	His	Leu	Ser	Thr	Ser	Lys	Glu	Pro	Asn	Leu	Val	Ile	Ser	Phe		
			340					345					350				
Ser	Gly	Pro	Lys	Gln	Pro	Ser	Gln	Asn	Asp	Ser	Ala	Asn	Ser	Val	Glu		
		355				360						365					
Val	Val	Asn	Gly	Met	Glu	Glu	Lys	Asn	Phe	Ser	Ala	Glu	Glu	Ala	Ser		
		370				375					380						
Phe	Arg	Asp	Gln	Pro	Val	Phe	Phe	Arg	Glu	Phe	Arg	Phe	Thr	Ser	Glu		
385				390						395					400		
Val	Pro	Ile	Arg	Leu	Asp	Tyr	His	Gly	Lys	His	Val	Ser	Met	Asp	Gln		
			405						410					415			
Gly	Thr	Leu	Ala	Gly	Ile	Leu	Ile	Gly	Leu	Ala	Gln	Leu	Asn	Cys	Ser		
			420					425					430				
Glu	Leu	Lys	Leu	Lys	Arg	Leu	Ser	Tyr	Arg	His	Gly	Leu	Leu	Gly	Val		
		435				440						445					
Asp	Lys	Leu	Phe	Ser	Tyr	Ala	Ile	Thr	Glu	Trp	Leu	Asn	Asp	Ile	Lys		
		450				455					460						
Lys	Asn	Gln	Leu	Pro	Gly	Ile	Leu	Gly	Gly	Val	Gly	Pro	Met	His	Ser		
465					470					475					480		
Leu	Val	Gln	Leu	Val	Gln	Gly	Leu	Glu	Asp	Leu	Val	Trp	Leu	Pro	Ile		
				485					490						495		

00629469.072800

Glu Gln Tyr Arg Lys Asp Gly Arg Ile Val Arg Gly Phe Gln Arg Gly  
500 505 510  
Ala Ala Ser Phe Gly Thr Ser Thr Ala Met Ala Ala Leu Glu Leu Thr  
515 520 525  
Asn Arg Met Val Gln Thr Ile Gln Ala Ala Ala Glu Thr Ala Tyr Asp  
530 535 540  
Met Val Ser Pro Gly Thr Leu Ser Ile Glu Pro Lys Lys Thr Lys Arg  
545 550 555 560  
Phe Pro His His Arg Leu Ala His Gln Pro Val Asp Leu Arg Glu Gly  
565 570 575  
Val Ala Lys Ala Tyr Ser Val Val Lys Glu Gly Ile Thr Asp Thr Ala  
580 585 590  
Gln Thr Ile Tyr Glu Thr Ala Ala Arg Glu His Glu Ser Arg Gly Val  
595 600 605  
Thr Gly Ala Val Gly Glu Val Leu Arg Gln Ile Pro Pro Ala Val Val  
610 615 620  
Lys Pro Leu Ile Val Ala Thr Glu Ala Thr Ser Asn Val Leu Gly Gly  
625 630 635 640  
Met Arg Asn Gln Ile Gly Pro Asp Val Arg Gln Asp Glu Ser Gln Lys  
645 650 655  
Trp Arg His Gly Asp Asp  
660

<210> 10920  
<211> 2083  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (506).. (1195)

<400> 10920  
tttttttttt cccggctggg ctccgggctca gctcgactgg gctcggcggg cggcggcggc 60  
ggcggccggcg gctggcggag gaggaggaggc gagggcgggc gcgggcccgc gggcgggagg 120  
aagagggagg agaggcggcg ggagccaggc ctccggggcct cggagcaacc acccgagcag 180  
acggagtaca cggagcagcg gcccgggcc cgccaacgct gcggccgggt acgtggctac 240  
accactggct gccctcttga acataaagga gaaaactcgg ctgagggaac ctcccaacgc 300  
caccttggaa catttctacc tgaccagtgg caagcagccc aagcagggtg aagtagagct 360  
tttgtcccgg cagagcgggc tctctggccg ccaggtagag cgttgggttc gtcgcccgcg 420  
caaccaggac cggcccagtc tctcaagaa gttccgagaa gccagctgga gattcacatt 480  
ttacctgatt gccttcattg ccggcatggc cgtcattgtg gataaaccct ggttctatga 540  
catgaagaaa gtttgggagg gatattccat acagagcact atcccttccc agtattggtg 600  
ctacatgatt gaactttcct tctactggtc cctgctcttc agcattgcct ctgatgtcaa 660  
gcgaaaggat ttcaaggaac agatcatcca ccatgtggcc accatcattc tcatcagctt 720  
ttcctggttt gcccaattaca tccgagctgg gactctaato atggctctgc atgactcttc 780  
cgattacctg ctggagtcag ccaagatgtt taactacgcg ggatggaaga acacctgcaa 840

09629469.072800



145		150		155		160									
Val	Leu	Gln	Leu	Leu	His	Ile	Phe	Trp	Ala	Tyr	Leu	Ile	Leu	Arg	Met
					165				170					175	
Ala	His	Lys	Phe	Ile	Thr	Gly	Lys	Leu	Val	Glu	Asp	Glu	Arg	Ser	Asp
			180					185					190		
Arg	Glu	Glu	Thr	Glu	Ser	Ser	Glu	Gly	Glu	Glu	Ala	Ala	Ala	Gly	Gly
		195					200					205			
Gly	Ala	Lys	Ser	Arg	Pro	Leu	Ala	Asn	Gly	His	Pro	Ile	Leu	Asn	Asn
	210					215					220				
Asn	His	Arg	Lys	Asn	Asp										
225						230									

<210> 10922  
 <211> 1894  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (263).. (1099)

<400> 10922

actctcctcc	cccagcggc	agcggcagcg	gcggcggcgg	cggctgctgc	gggcgctgaa	60
tgagagacgg	tgactgttcg	ggtcgacgag	tgctactcta	ggcggcggcg	gccgtggcgg	120
tgaagcgtgg	ggccggcatc	gtctttccgt	cctctgagac	gacggccgcg	gctgcacagg	180
aataatgtat	ttgtggcctt	ggacatgagg	cagtcagtc	tctgttgctg	ttaacataag	240
gtcagggact	gatgaggaaa	gcatggacct	aatgaacggg	caggcaagca	gtgtcaatat	300
tgacagctact	gcttctgaga	aaagtagcag	ctctgaatcc	ttaagtga	aaggctctga	360
attgaagaaa	agctttgatg	ctgttggtatt	cgatgttctt	aaggttacac	cagaagaata	420
tgccgggtcag	ataacattaa	tggatgttcc	agtattttaa	gctattcaac	cagatgagct	480
ttcaagttgt	ggatggaata	aaaaagaaaa	atatagttct	gcaccaaagt	cagttgcctt	540
cacaagaaga	ttcaatcatg	taagcttttg	ggttggttaga	gagattcttc	atgctcaaac	600
attaaaaatt	agagcagaag	ttttgagcca	ctatattaaa	actgctaaga	aactgtatga	660
gotgaataac	cttcatgcac	ttatggcagt	ggtttctggc	ctacagagtg	ccccaatatt	720
cagggtgact	aaaacatggg	cgttattaag	tcgaaaagac	aaaactacct	ttgaaaaatt	780
agaatatgta	atgagtaaag	aagataacta	caaaagactc	agagactata	taagtagctt	840
aaagatgaca	ccttgcatc	cctattttag	tatctatttg	tcagatttaa	catacatcga	900
ttcagcatac	ccatcaactg	gcagcattct	agaaaatgag	caaagatcaa	atttaatgaa	960
taatatcctt	cgaataattt	ctgattttaca	gcagtccttg	gaatatgata	ttcccatggt	1020
gcctcatgtc	caaaaatata	tcaactctgt	tcagtatata	gaagaactac	aaaaatttgt	1080
ggaagacgat	aattacaagt	aggttggtatc	ttcaaaagtg	gtttgtataa	ctttgtcctg	1140
tcctccacct	ttctatccct	atgtattttaa	acatctaaat	cctacatggg	atcatacaaa	1200
ggactaatcc	agtgttttac	agcagtaaag	gtactaacat	gtattacttc	ttaatcactt	1260
gttatgattg	agccaatata	caaatacctc	atctgttctt	tttaatat	tatctctgtt	1320
tgtagagagc	taacgtttga	tagttctaat	ttaaatttct	tcctttcccc	catattcaat	1380
cattgaatcc	ttatagaatt	tgtcttttaa	tagacagaaa	aattaatgaa	actttttaaa	1440
atagaaaaat	tactcttctt	taatgctaag	tattgacaca	tcgttggttg	tttttcattg	1500

0969469.072800

tttttgcgga ttgagagact tgggtccatct tgtctcagga gaagaaacct ttctccaatg 1560  
tagcagaatt atcctcttcc ctgtattata gcaagttctt tattaaagat ttttgaggcc 1620  
gggcacagtg actcacgcct gtaaccccag cactttggga ggccgaggcg ggtggatcac 1680  
ttgaggtcag gagctcaaga ccagcctgac caatatagtg aaacactgtc tgtactaaaa 1740  
atacagaatt agccgggcat ggtgcatgcc tgtaatccca gctgcttggg aggctgaggc 1800  
aggagaatca cttgaacaca ggaggcagag gttgcagtga gccgagagtg caccattgca 1860  
ctccagcctg ggcaaaaaga gcaaaactcc gtct 1894

<210> 10923

<211> 279

<212> PRT

<213> Homo sapiens

<400> 10923

Met Asp Leu Met Asn Gly Gln Ala Ser Ser Val Asn Ile Ala Ala Thr  
1 5 10 15  
Ala Ser Glu Lys Ser Ser Ser Ser Glu Ser Leu Ser Asp Lys Gly Ser  
20 25 30  
Glu Leu Lys Lys Ser Phe Asp Ala Val Val Phe Asp Val Leu Lys Val  
35 40 45  
Thr Pro Glu Glu Tyr Ala Gly Gln Ile Thr Leu Met Asp Val Pro Val  
50 55 60  
Phe Lys Ala Ile Gln Pro Asp Glu Leu Ser Ser Cys Gly Trp Asn Lys  
65 70 75 80  
Lys Glu Lys Tyr Ser Ser Ala Pro Asn Ala Val Ala Phe Thr Arg Arg  
85 90 95  
Phe Asn His Val Ser Phe Trp Val Val Arg Glu Ile Leu His Ala Gln  
100 105 110  
Thr Leu Lys Ile Arg Ala Glu Val Leu Ser His Tyr Ile Lys Thr Ala  
115 120 125  
Lys Lys Leu Tyr Glu Leu Asn Asn Leu His Ala Leu Met Ala Val Val  
130 135 140  
Ser Gly Leu Gln Ser Ala Pro Ile Phe Arg Leu Thr Lys Thr Trp Ala  
145 150 155 160  
Leu Leu Ser Arg Lys Asp Lys Thr Thr Phe Glu Lys Leu Glu Tyr Val  
165 170 175  
Met Ser Lys Glu Asp Asn Tyr Lys Arg Leu Arg Asp Tyr Ile Ser Ser  
180 185 190  
Leu Lys Met Thr Pro Cys Ile Pro Tyr Leu Gly Ile Tyr Leu Ser Asp  
195 200 205  
Leu Thr Tyr Ile Asp Ser Ala Tyr Pro Ser Thr Gly Ser Ile Leu Glu  
210 215 220  
Asn Glu Gln Arg Ser Asn Leu Met Asn Asn Ile Leu Arg Ile Ile Ser  
225 230 235 240  
Asp Leu Gln Gln Ser Cys Glu Tyr Asp Ile Pro Met Leu Pro His Val  
245 250 255  
Gln Lys Tyr Leu Asn Ser Val Gln Tyr Ile Glu Glu Leu Gln Lys Phe

09629469.072800





aatacaaaaa	ttagccgggc	atggctgttg	gcacctgtaa	tcccagctac	ttgggaggct	2280
gaggcaggag	aattgcttga	acctgggagg	cagaggttgc	agtgagccga	gatggcgcca	2340
ctgcattcca	gcctgggcat	cagagcatca	gagcaagact	atgtc		2385

<210> 10925  
 <211> 2127  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (28).. (486)

<400> 10925

atttttcatg	tcacataatt	ttggagtatg	tcattggacat	ttgaatattt	tgttacaaaa	60
ctggatgctg	ttaaaatcct	ctggaaaata	tttttggttt	tttggtttca	ctttagcggg	120
cagttaacct	ggttaggttc	agactgcctc	tgtgggctgt	ggatccagtt	tgaacttact	180
tttcaaaacc	ttcgtattgc	tgttcaggtc	ccagggtgtg	catccatgcc	attgtgcagt	240
tctcagcgcc	tttcctctgc	cgccttgggt	cagttcacac	atgggcatgt	tggtggtaaa	300
cttgagattg	tatacacaaa	tttagaggac	gtttcttctc	tccgtgactt	cccttgtaca	360
caagctccca	agagtttctt	ttcgtggttc	tttggtgaga	aaactggaat	tttagcttct	420
ttgtgctttt	catacgtttt	ctgtagaggg	gctcatttcc	tgaacaaaat	ggagagagag	480
aaaagttaga	gaaaaaaata	aaatgaattc	cctcttccat	actottccga	tcatcgtctt	540
tttcttagtt	cttttgtcag	aagaactctc	tttttagagtt	taggagacag	ctaccagcca	600
cagggtgtgca	gactcaggat	tggggcttgc	tttgaggcag	agctgagaga	gaagaaaaat	660
taccagatat	ccacccttcc	ccattgtccc	tctcccatcc	atcatctttt	ctagtctctt	720
agccagaagg	agtttctctt	ggaacttttc	tctgtcttca	ctcaactgcac	agttaatgag	780
atttgggctg	tcctcaagtc	taagctgaca	tatgtgggag	aaaaaaaacca	ggaaactcac	840
tactgttttg	agttttgatt	tctctcgcca	gtctgcttgc	ttcaaatatc	ttttcagagt	900
ccttgtatat	ttgctttatg	tattcttttc	aggattttta	gtaataatca	atggacaaga	960
tagggtggag	tgtgctttct	ccatcttagc	tagaactggg	accccgctcc	ccactcgtaa	1020
aatataaata	atgacttagc	atggcacatt	aggtgggcat	tagagacacc	agggaagcga	1080
ttacaaatat	aaatgcccgag	gttgtatctc	cagataatta	aaaatctttc	aggagtagga	1140
tccagaaaac	tatatttaaa	agttctctag	gttcttgata	tactatgtag	gttgtgggtct	1200
gaggaccact	acatggggat	catttggaac	cttggttagaa	atgtagactc	aggttccatt	1260
ccagacctgc	tgaattggaa	caagatcccc	agatgggtgc	tacgcacagt	aaaatttgag	1320
cagcactgcc	ctagcatgat	tctagtgtgc	agtcaatgtt	gaggaccact	gtcttagagg	1380
attgcgtaaa	agcaaatgac	gtgtatataa	atttagattg	taatatcttc	tgagtataaa	1440
ctcattaggt	gcaagctgag	ctcaccctcc	atgttttctg	tgttcttggt	taaagtaagt	1500
tacctttgat	gaaaaccaca	ggttcattct	tgacttcaaa	tcagatttgt	tgctattgaa	1560
gctaattgga	tcccagctca	gctttgtggc	ttggattcac	accatataaa	atcttcaaca	1620
gacattcatt	cttttgttca	gaacacacaa	ccttctaacg	tgaacctcca	attttctaaa	1680
ttcattcttt	ttctacttca	cctgaaacca	cagatccatg	gcacttagtt	tctctgtaac	1740
agcagctcta	ccatgggtgtc	cagaaatttt	agcccctact	atcaagaaca	aaacatcctt	1800
gtacatgttt	atacatcttt	ttgagtagga	gttttccacc	agttgcaggg	attccctgag	1860
tctagagtaa	tgccacaatg	ctgctccctt	ttactccttt	ctaagcattt	ctgtcagggg	1920
gaagacttag	attcagttgt	tcactttaac	attttcctta	gatactctct	tagaaaagtt	1980



gaggatgatt	aataaaagag	agaaagtgat	tctatataga	gatgcaggac	tatttcaggc	600
tcattcatga	tctaggtttt	tgtgcttcat	ggttatttta	ttatcatcaa	taaaaagaaa	660
aaagaaaaaa	atcttatact	gtccaaaaaa	ttagggagac	cagcgccag	tgttcatgtg	720
aggggggact	agtgtccatt	tccaccaagc	agcctggaaa	tgctcatcct	cacagggcac	780
tggagagggt	tctcaagaag	cgagtgcctc	catgggggaa	ataattaacc	ccagattaaa	840
tgctgcttca	gacctaatgg	atggtaaaaa	caagatccaa	aaggatcaaa	ctctttccag	900
gtagattaac	tgtatcccag	aacaaagctc	aaggacattt	ttagaaatac	gtatatatcc	960
agcacacaag	cagggtaaaa	ttcacatctg	caaatttacc	aggcattcaa	aggggcaaaa	1020
aatacacaac	ccacaattaa	gagactaatg	aattaatcaa	aaccaacca	gaacttatac	1080
agatgtgagc	attagcagaa	aaggacttga	agtagttatt	agaactgtct	ccctggccgg	1140
gtgtggtggc	tcatgcctgt	aatcccagca	ctttggggagg	ccgagggtggg	tggatcacct	1200
caggtcagga	gttcaagacc	agtctggcca	aaatggtgaa	accccacctc	tactaaacat	1260
ggaccaatga	tgaccactgg	tggcgtttga	gtcatggacg	atgaatacta	cgtgtctgaa	1320
actctgaggt	ccaacagaaa	acataattgg	atagatatca	gaaatgtgca	aagatcatat	1380
tcttactttg	gattaataga	ttgaggttca	tcatcaatag	ataaatgata	gaacaattaa	1440
acaagaataa	ataaagggtga	atcattgttc	aattatgaat	atacatgatg	atgtaagaaa	1500
tattatcact	aaaaatttta	aacacagatg	ccccttaaag	aaatggatca	tgagtcccgc	1560
cactgcactc	cagcctgggc	gacagagcga	gactccgtct	c		1601

<210> 10928

<211> 1699

<212> DNA

<213> Homo sapiens

<400> 10928

ccactgatga	cttgttagatg	gaggggtaca	tatgaaaagg	gcttcagagt	ggcctccagg	60
agttaggagc	aaccaccagt	caacagccag	ccagaaacag	aggtcttggt	catctaagca	120
caagaaattg	tattctgccca	acaagaagat	ttggctgacc	atgagaatga	tttttttcc	180
agagcttcca	gatgaggact	cagtcatcag	acaccagat	tatagccctg	tggtacccta	240
gttaaagaac	taagctatto	catgtcagag	ttttgaccaa	cagtactgta	ggctaataaa	300
taggtgtgac	tgtaggctgt	taagttttgt	tccatttgc	atgaagcaat	agaaaacagg	360
caacatgctc	tgttttttct	actcttgc	caccttgg	tttctgttct	cctccattca	420
ttaataaatt	gcttctgggt	cctctaggta	ctaggctgtg	ggtaggggaa	ggtaggaaag	480
ttgagaagaa	agttgggggt	tttttaaaat	gacttaagtt	cagctgtctt	ccgagttcat	540
gggaaaataa	gccattcttt	ttctgcaaaa	cgggtgtatt	aaggcttgca	ggatgaaata	600
ttttgcttct	gacttctcca	gctgagaagc	aggcataatt	ttctgtgatt	attaatattg	660
caaactctag	aaaatgcaag	ctagccttcc	cagaagtitt	ctcactgttc	tacactccaa	720
ttgccctaag	ggaaatagag	ggtgaagact	gtcttttctt	ctcagaggca	ctcccaattt	780
ctatgtgtga	ttctcttggg	tcacctcat	gtcaccaggg	aatgaaatat	tccccatctt	840
actccatgca	gaaaggagga	gaagagccag	gacatgttct	gtattcctat	gtattcccat	900
taaccactag	ctttctctta	catagtttca	ttaggggatg	aacaagaata	ttggaaagat	960
tggtaaaatc	ttgtagggac	atttctagat	gatttctatg	attgtttggg	atatttgcaa	1020
tctgtcctta	gttttgattc	ctctgtgaat	tgaggtaaaa	ttcccattta	aatcctgtt	1080
gcaaattcta	ctttgcgaaa	gtaaaaacca	ccaccctgtg	ctctatgaaa	gttcctttct	1140
tgcctactga	taatagtttg	gttctcttga	gttaaaatat	agctttattt	tcagatattt	1200
aaaatatctg	ctttttattt	tctaaaaatc	actotaaact	cttgggtggag	agtagaatgc	1260
aggaggatga	aattggaccc	tgcaatacag	atactottga	ggtaatctag	acctccatt	1320

aatgggtga	tccatggaat	ggcaggatca	atgtcatctg	gaagcctgta	agaaaagatg	1380
agtctctggt	ctttcttcag	acctactaaa	gtagaatgta	cactttaaca	agatccccag	1440
gtaatttgta	tgcttactag	aaattgtgaa	ggacttctct	aggtgagatt	tgatgcttgc	1500
ttatctaggg	tgatgtgtgt	ggaaatgggg	ataagggaaat	ggatacaaga	tatatttttg	1560
agatacaaat	gacagaattt	taggatgact	tgatgtcaga	aataaggaaa	aggaagaaat	1620
ccagcatgat	aagttaggtt	tctagcttga	gtaacatagt	ggtggtttat	gaagtttggg	1680
agaggaatat	gcttgatac					1699

<210> 10929  
 <211> 3077  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (20).. (640)

<400> 10929

agagggccgg	agcgagaaga	tggcgaagac	gtacgattat	ctcttcaagc	tcctgctgat	60
cggcgactcg	ggggtaggca	agacctgcct	cctgttccgc	ttctcagagg	acgccttcaa	120
caccaccttc	atctccacca	tcggaattga	ttttaaaatt	agaacgatag	aactagatgg	180
aaagaaaatt	aagcttcaga	tatgggacac	agcgggtcag	gaaagattcc	gaacaatcac	240
gacagcgtac	tacagaggag	ccatgggcat	tatgctggtc	tatgacatca	caaataaaaa	300
atcctttgac	aatattaaaa	attggatcag	aaacattgaa	gagcatgcct	cttccgatgt	360
cgaagaatg	atcctgggta	acaaatgtga	tatgaatgac	aaaagacaag	tgtcaaaaaga	420
aagaggggag	aagctagcaa	ttgactatgg	gattaaattc	ttggagacaa	gcgcaaaatc	480
cagtgc aaat	gtagaagagg	catttttttac	acttgcacga	gatataatga	caaaactcaa	540
cagaaaaatg	aatgacagca	attcagcagg	agcagggtga	ccagtga aaa	taacagaaaa	600
ccgatcaaaag	aagaccagtt	tctttcgttg	ctcgtacttt	tgatgaactc	tttctgagag	660
actgcagcac	acctagaggg	ccctttcctg	cttctctgaa	agcacaggtc	acccagcctc	720
agaatcacac	ctcccggctg	ctgctgagag	caccaactgaa	cttagacctc	tcaacacagt	780
atgccaaagt	gattccagcc	tcattggccta	gcaaaaagaac	agactccctt	tttcaaacat	840
ggaagcaatg	aagtggagac	acatgcagga	cctaactcgt	tttttccttg	ttttattacc	900
tgttgcagaa	gcggttatct	ttctttttta	ctttgcacat	cagtgttagc	ctttccctat	960
ttcagcacaa	tcttagactc	atattttgcac	actttttgtg	cgtgaagtgc	tagacaaatt	1020
tgtacatgtg	gcaatgttaa	aagagcattt	acagcagagg	ttaataact	aaaattaaag	1080
ggtattttggt	ctggttcata	tggtcaaata	ttactgcctt	ggtagcattt	atttaagggc	1140
ttttcttaa	ataagaatca	ttaaagtcac	taaaaaattt	actgaaatgc	ccatcttgtc	1200
atcaaaggcc	acaatttctt	tatttcttca	gattaagagc	tttgcctcat	ccccgacctg	1260
ttttccagag	tctgggtagc	tgaatgaatc	actttaaaat	gattacctct	gcctaatacta	1320
tagaaactgc	atttggaat	caccatattc	tcatttttcc	ctgggggttg	tatttgctat	1380
tctttcccat	gtttgactta	agtgtaatcg	ctcttaagta	atatttgaac	attattatct	1440
gtttctatct	gtgaacttct	tgagctgaaa	ttttacgtgg	gctgagagat	ataccattta	1500
gggttttagt	gcagcatcta	actgtgattc	tgtcaataag	gatattgta	atattttttc	1560
ttaggttcac	tccttagctg	gctgggttag	ttgtaatacc	aaattcctac	cataatccct	1620
gtctacaaaa	gttaggttta	gatttttagt	tgcgga aacc	ttccctatat	agagacagat	1680
taacttggtg	atataaattt	aatagagcta	gctcttggtg	atggtgaaaa	taatgagttt	1740

09629469.072800



130		135		140
Ile Lys Phe Leu Glu Thr Ser Ala Lys Ser Ser Ala Asn Val Glu Glu				
145		150		155
Ala Phe Phe Thr Leu Ala Arg Asp Ile Met Thr Lys Leu Asn Arg Lys				
	165		170	175
Met Asn Asp Ser Asn Ser Ala Gly Ala Gly Gly Pro Val Lys Ile Thr				
	180		185	190
Glu Asn Arg Ser Lys Lys Thr Ser Phe Phe Arg Cys Ser Leu Leu				
	195	200		205

<210> 10931  
 <211> 2515  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (393).. (1484)

<400> 10931

atttggccag	tggtgggagg	ttgccacagc	tggtttaggg	ccccgaccac	tggggcccct	60
tgtcaggagg	agacagcctc	ccggcccggg	gaggacaagt	cgctgccacc	tttggctgcc	120
gacgtgattc	cctgggacgg	tccgtttcct	gccgtcagct	gccggccgag	ttgggtctcc	180
gtggttcagg	ccggctcccc	cttccttggtc	tcccttctcc	cgctgggccc	gtttatcggg	240
aggagattgt	cttcaggggc	tagcaattgg	acttttgatg	atgtttgacc	cagcggcagg	300
aatagcaggc	aacgtgattt	caaagctggg	ctcagcctct	gtttcttctc	tcgtgtaatc	360
gcaaaaccca	ttttggagca	ggaattccaa	tcatgtctgt	gatgggtggg	agaaagaagg	420
tgacacggaa	atgggagaaa	ctcccaggca	ggaacacctt	ttgctgtgat	ggccgcgtca	480
tgatggcccc	gcaaaagggc	attttctacc	tgaccctttt	cctcatcctg	gggacatgta	540
cactcttctt	cgcttttgag	tgccgctacc	tggtgtttca	gctgtctcct	gccatcccctg	600
tatttgctgc	cacgctcttc	cttttctcca	tggtacacct	gttgaggacc	agcttcagtg	660
accctggagt	aattcctcgg	gcgctaccag	atgaagcagc	tttcatagaa	atggagatag	720
aagctaccaa	tggtgcgggtg	ccccagggcc	agcgaccacc	gcctcgtatc	aagaatttcc	780
agataaacia	ccagattgtg	aaactgaaat	actgtttacac	atgcaagatc	ttccggcctc	840
cccgggcctc	ccattgcagc	atctgtgaca	actgtgtgga	gcgcttcgac	catcactgcc	900
cctgggtggg	gaattgtggt	ggaaagagga	actaccgcta	cttctacctc	ttcatccttt	960
ctctctccct	cctcacaatc	tatgtcttcg	ccttcaacat	cgtctatgtg	gccctcaaat	1020
ctttgaaaat	tggtctcttg	gagacattga	aagaaactcc	tggaactgtt	ctagaagtcc	1080
tcatttgctt	ctttacactc	tggtccgtcg	tgggactgac	tggaattcat	actttcctcg	1140
tggtcttcaa	ccagacaacc	aatgaagaca	tcaaaggatc	atggacaggg	aagaatcgcg	1200
tccagaatcc	ctacagccat	ggcaatattg	tgaagaactg	ctgtgaagtg	ctgtgtggcc	1260
ccttgccccc	cagtgtgctg	gatcgaaggg	gtattttgcc	actggaggaa	agtgaaggtc	1320
gacctcccag	tactcaagag	accagtagca	gcctcttgcc	acagagccca	gccccacag	1380
aacacctgaa	ctcaaatgag	atgccggagg	acagcagcac	tcccgaagag	atgccacctc	1440
cagagccccc	agagccacca	caggaggcag	ctgaagctga	gaagtagcct	atctatggaa	1500
gagacttttg	tttgtgttta	attagggcta	tgagagattt	caggtgagaa	gttaaacctg	1560
agacagagag	caagtaagct	gtccctttta	actgtttttc	tttggctctt	agtcacccag	1620

000220" 072300

```

ttgcacactg gcattttctt gctgcaagct tttttaaat totgaactca aggcagtggc 1680
agaagatgtc agtcacctct gataactgga aaaatgggtc tottgggccc tggcactggt 1740
tctccatggc ctcagccaca ggggtccctt ggacccctc tottccctcc agatcccagc 1800
cctcctgctt ggggtcactg gtctcattct ggggctaata gtttttgaga ctggctcaaa 1860
tcctccaag ctgctgcacg tgctgagtc agaggcagtc acagagacct ctggccaggg 1920
gatcctaact gggttcttgg ggtcttcagg actgaagagg agggagagtg gggtcagaag 1980
attctcctgg ccaccaagt ccagcattgc ccacaaatcc ttttaggaat gggacaggta 2040
ccttccactt gttgtattta ttagtgtagc ttctcctttg totcccatcc actctgacac 2100
ctaagcccca ctcttttccc attagatata tgtaagtagt ttagtagag ataataattg 2160
acatttctcg tagactacco agaaaccttt ttaataacctg tgccattctc aataagaatt 2220
tatgagatgc cagcggcata gcccttcaca ctctctgtct catctctct ctttctcat 2280
tagcccttt taatttgttt ttcttttga ctctgtctcc cattaggagc aggaatggca 2340
gtaataaaaag tctgcacttt ggtcatttct ttctctcaga ggaagcctga gtgctcactt 2400
aaacactatc ccctcagact ccctgtgtga ggccctgcaga ggccctgaat gcacaaatgg 2460
gaaaccaagg cacagagagg ctctcctctc ctctcctctc ccccgatgta ccctc 2515

```

<210> 10932  
 <211> 364  
 <212> PRT  
 <213> Homo sapiens

<400> 10932

Met	Ser	Val	Met	Val	Val	Arg	Lys	Lys	Val	Thr	Arg	Lys	Trp	Glu	Lys
1				5					10					15	
Leu	Pro	Gly	Arg	Asn	Thr	Phe	Cys	Cys	Asp	Gly	Arg	Val	Met	Met	Ala
			20					25					30		
Arg	Gln	Lys	Gly	Ile	Phe	Tyr	Leu	Thr	Leu	Phe	Leu	Ile	Leu	Gly	Thr
		35					40					45			
Cys	Thr	Leu	Phe	Phe	Ala	Phe	Glu	Cys	Arg	Tyr	Leu	Ala	Val	Gln	Leu
	50					55					60				
Ser	Pro	Ala	Ile	Pro	Val	Phe	Ala	Ala	Thr	Leu	Phe	Leu	Phe	Ser	Met
	65				70					75				80	
Ala	Thr	Leu	Leu	Arg	Thr	Ser	Phe	Ser	Asp	Pro	Gly	Val	Ile	Pro	Arg
				85					90					95	
Ala	Leu	Pro	Asp	Glu	Ala	Ala	Phe	Ile	Glu	Met	Glu	Ile	Glu	Ala	Thr
			100					105					110		
Asn	Gly	Ala	Val	Pro	Gln	Gly	Gln	Arg	Pro	Pro	Pro	Arg	Ile	Lys	Asn
		115					120					125			
Phe	Gln	Ile	Asn	Asn	Gln	Ile	Val	Lys	Leu	Lys	Tyr	Cys	Tyr	Thr	Cys
	130					135					140				
Lys	Ile	Phe	Arg	Pro	Pro	Arg	Ala	Ser	His	Cys	Ser	Ile	Cys	Asp	Asn
	145					150				155				160	
Cys	Val	Glu	Arg	Phe	Asp	His	His	Cys	Pro	Trp	Val	Gly	Asn	Cys	Val
				165					170					175	
Gly	Lys	Arg	Asn	Tyr	Arg	Tyr	Phe	Tyr	Leu	Phe	Ile	Leu	Ser	Leu	Ser
			180					185					190		
Leu	Leu	Thr	Ile	Tyr	Val	Phe	Ala	Phe	Asn	Ile	Val	Tyr	Val	Ala	Leu

09629469.072800



	195		200		205										
Lys	Ser	Leu	Lys	Ile	Gly	Phe	Leu	Glu	Thr	Leu	Lys	Glu	Thr	Pro	Gly
	210					215					220				
Thr	Val	Leu	Glu	Val	Leu	Ile	Cys	Phe	Phe	Thr	Leu	Trp	Ser	Val	Val
225					230					235					240
Gly	Leu	Thr	Gly	Phe	His	Thr	Phe	Leu	Val	Ala	Leu	Asn	Gln	Thr	Thr
			245					250						255	
Asn	Glu	Asp	Ile	Lys	Gly	Ser	Trp	Thr	Gly	Lys	Asn	Arg	Val	Gln	Asn
		260						265					270		
Pro	Tyr	Ser	His	Gly	Asn	Ile	Val	Lys	Asn	Cys	Cys	Glu	Val	Leu	Cys
	275					280						285			
Gly	Pro	Leu	Pro	Pro	Ser	Val	Leu	Asp	Arg	Arg	Gly	Ile	Leu	Pro	Leu
	290					295					300				
Glu	Glu	Ser	Glu	Gly	Arg	Pro	Pro	Ser	Thr	Gln	Glu	Thr	Ser	Ser	Ser
305					310					315					320
Leu	Leu	Pro	Gln	Ser	Pro	Ala	Pro	Thr	Glu	His	Leu	Asn	Ser	Asn	Glu
			325					330						335	
Met	Pro	Glu	Asp	Ser	Ser	Thr	Pro	Glu	Glu	Met	Pro	Pro	Pro	Glu	Pro
		340						345					350		
Pro	Glu	Pro	Pro	Gln	Glu	Ala	Ala	Glu	Ala	Glu	Lys				
	355					360									

<210> 10933  
 <211> 1808  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (8).. (433)

<400> 10933  
 cagtaatatg attgtccata gagatatcaa aggcgcgcaaat atcctgcgag attcaacagg 60  
 caacgtcaaaa ctaggagatt ttggggccag caaacggcct cagaccatct gtctctcagg 120  
 gacaggaatg aagtctgtca cgggcacacc atactggatg agccctgaag tcatcagtgg 180  
 agaaggctat ggaagaaaag cagacatctg gagtgttgca tgtactgtgg tagaaatgct 240  
 aactgaaaag ccgccttggg ctgaatttga agcaatggct gccatcttta aaatcgccac 300  
 tcagccaaca aacccaaagc tgccacctca tgtctcagac tatactcgag atttcctcaa 360  
 acggattttt gtagaggcca aactgagacc ttcagctgat gaactcttaa ggcacatgtt 420  
 tgtgcattat cactagcagc cagtaacctc tctgtgcct ctacctagct cccatctatt 480  
 cattcacctt ctctctgact gcacttttct tttttataaa aaaagagaga tgggggagaa 540  
 aaaagacaag agggaaagta tttctcttga ttcttggtta aatttggtta ataataataa 600  
 tatcctaaat tttttatatt taatcttttt ttcccttaca agaacttgaa gttttttttt 660  
 taatttttat aatgtactga tgtggttcag agagataaag cacttttagta catagtcact 720  
 ctttttagta caaacaatc atttggaata cctaaagatt gtagagtcatt tccctctatc 780  
 actgacacat cagtgcagat gggaagacat ggaaaacaag gagaagaaaa tgatgtataa 840  
 tttgtagttt ttagtgatag tatttaaaat atatcctcat ttgtggggtt gagccctaaa 900

09629469-072800

```

ctttagttaa gggtaggtac tcaacttaaa gaatataggt ttctttttat atctgtattc 960
tttagatcct aacctctgtc taccaacctt ttgtctcagt aggagtcttg atagaagata 1020
tgaatctctg agaggtatgt ttatttgtaa atcctaacca gtataataag caaatacact 1080
ataatagatc cacgttactg gaatctgtaa accttgaggg atagctttct gcttaaaaac 1140
acacacacac acacacacac acggaaaacc tttattttta agtcaagttg tgagcaaata 1200
gaaataaaaag acaaaaaggac atcactctta tcaaattgtg gagcagtaga agagaccaca 1260
tttacagtca atagaaataa tgaaaaaaaa ttaggtgttt agtgtatttt aaacagtttt 1320
gttttgtttt acttgagggg gacgtcccaa aattaaagga atggagaaat aatcaaaatc 1380
atgtatacca tcttctattt ccagctcctg attccccata ggtaacatcc cttaggagcg 1440
aagagttcaa ttagtaatgt ctatgtgtta tgtcaggaga tgaaaccctt gttcttagga 1500
tcacagaata ctaaagcacc tcaaaaaaac aggtatcatg tgaaacagtg gttgccaaaa 1560
gtggagcgag gatgatttca ctaggcattt ggcaattctt agagacattt ccggttgtca 1620
caattagagg gatactagta gcatgaattg ggtagaggcc agggatgttg ctaaatagat 1680
tataatacac aaggaaagca gcctcaaaga attacccttc ccaaaatgtc agaagtgtctg 1740
aggctgagaa accctgatgt aaagatcagt cccagttata aactgaaaac agctatttac 1800
aaagcagt 1808

```

<210> 10934  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 10934

Met	Ile	Val	His	Arg	Asp	Ile	Lys	Gly	Ala	Asn	Ile	Leu	Arg	Asp	Ser
1				5					10					15	
Thr	Gly	Asn	Val	Lys	Leu	Gly	Asp	Phe	Gly	Ala	Ser	Lys	Arg	Leu	Gln
			20					25					30		
Thr	Ile	Cys	Leu	Ser	Gly	Thr	Gly	Met	Lys	Ser	Val	Thr	Gly	Thr	Pro
		35					40					45			
Tyr	Trp	Met	Ser	Pro	Glu	Val	Ile	Ser	Gly	Glu	Gly	Tyr	Gly	Arg	Lys
	50					55					60				
Ala	Asp	Ile	Trp	Ser	Val	Ala	Cys	Thr	Val	Val	Glu	Met	Leu	Thr	Glu
	65				70					75				80	
Lys	Pro	Pro	Trp	Ala	Glu	Phe	Glu	Ala	Met	Ala	Ala	Ile	Phe	Lys	Ile
				85					90					95	
Ala	Thr	Gln	Pro	Thr	Asn	Pro	Lys	Leu	Pro	Pro	His	Val	Ser	Asp	Tyr
			100					105					110		
Thr	Arg	Asp	Phe	Leu	Lys	Arg	Ile	Phe	Val	Glu	Ala	Lys	Leu	Arg	Pro
	115					120						125			
Ser	Ala	Asp	Glu	Leu	Leu	Arg	His	Met	Phe	Val	His	Tyr	His		
	130					135						140			

<210> 10935  
 <211> 1741  
 <212> DNA  
 <213> Homo sapiens

09629469.072300

<220>  
<221> CDS  
<222> (153).. (1172)

<400> 10935

```

caccgattta tgggtgctgac atcagtggtc ccttgtttga tgaaaacact aaacaatgga 60
atcttgggca cctgggaaca attcaggacc tgctggaaaa ggaatgtggg gttgtcatag 120
aaggcgtcaa tacaccctac ttgtactttg goatgtggaa aaccacgttt gcttggcata 180
cagaggacat ggacctttac agcatcaact acctgcacct tggggagccc aaaacttggt 240
atgtggtgcc cccagaacat ggccagcgcc tggaaagcct ggccaggagg ctcttcccag 300
gcagttcccg gggttgtggg gccttcctgc ggcacaaggt ggccctcatc tcgcctacag 360
ttctcaagga aaatgggatt cccttcaatc gcataactca ggaggctgga gagttcatgg 420
tgacctttcc ctatggctac catgctggct tcaaccatgg tttcaactgc gcagaggcca 480
tcaattttgc cactccgcga tggattgatt atggcaaaat ggccctcccag tgtagctgtg 540
gggaggcaag ggtgaccttt tccatggatg ccttcgtgog catcctgcaa cctgaacgct 600
atgacctgtg gaaacgtggg caagaccggg cagttgtgga ccacatggag cccagggtac 660
cagccagcca agagctgagc acccagaagg aagtccagtt acccaggaga gcagcgctgg 720
gcctgagaca actcccttcc cactgggccc ggcattcccc ttggcctatg gctgcccgca 780
gtgggacacg gtgccacacc cttgtgtgct cttcactccc acgccaatct gcagttatg 840
gcactgtctac gcagccccgg gctgctgctg tccacagctc taagaagccc agctcaactc 900
catcatccac ccctggtcca tctgcacaga ttatccaccc gtcaaattggc agacgtggtc 960
gtggtcgccc tcctcagaaa ctgagagctc aggagctgac cctccagact ccagccaaga 1020
ggccccctct ggcgggcaca acatgcacag cttcggggccc agaacctgag cccctacctg 1080
aggatggggc tttgatggac aagcctgtac cactgagccc agggctccag catcctgtca 1140
aggcttctgg gtgcagctgg gcccctgtgc cctaagtcca cgggctgtct ttatatccca 1200
ctgccctgct gtgtgacagt ttgatgaaac tggttacatt tacatcccaa aactttggtt 1260
gagtttgacg gactctaggg atgcatgaaa gagccccctt ggtgatgccc ttggatgctg 1320
ccaagtccat ggtagttttc aattttgcca tacttttgtt cttcctaccg gacctggaa 1380
tgtctttgga tattgctaaa atctatttct gcagctgagg ttttatccac tggacacatt 1440
tgtgtgtgag aactaggtct tgttgagggt agcgtaacct ggtatatgca actaccatcc 1500
tctgggccag ctgtggaagc tgctgcactt gtgaagaatc ctgagctttg attcctcttc 1560
agtctacgca tttctctctt cccctccctc accccctttt tottataaaa ctaggttctt 1620
tatacagata aggtcagtag agttccagaa taaaagatat gacttttctg agttatttat 1680
gtacttaaaa tatgttgtca cagtatttgt tccaaaatat attaaaggta accaaaatgt 1740
t

```

<210> 10936  
<211> 340  
<212> PRT  
<213> Homo sapiens

<400> 10936

```

Met Trp Lys Thr Thr Phe Ala Trp His Thr Glu Asp Met Asp Leu Tyr
 1             5             10             15
Ser Ile Asn Tyr Leu His Leu Gly Glu Pro Lys Thr Trp Tyr Val Val
          20             25             30

```

09629469.072809

Pro Pro Glu His Gly Gln Arg Leu Glu Arg Leu Ala Arg Glu Leu Phe  
35 40 45  
Pro Gly Ser Ser Arg Gly Cys Gly Ala Phe Leu Arg His Lys Val Ala  
50 55 60  
Leu Ile Ser Pro Thr Val Leu Lys Glu Asn Gly Ile Pro Phe Asn Arg  
65 70 75 80  
Ile Thr Gln Glu Ala Gly Glu Phe Met Val Thr Phe Pro Tyr Gly Tyr  
85 90 95  
His Ala Gly Phe Asn His Gly Phe Asn Cys Ala Glu Ala Ile Asn Phe  
100 105 110  
Ala Thr Pro Arg Trp Ile Asp Tyr Gly Lys Met Ala Ser Gln Cys Ser  
115 120 125  
Cys Gly Glu Ala Arg Val Thr Phe Ser Met Asp Ala Phe Val Arg Ile  
130 135 140  
Leu Gln Pro Glu Arg Tyr Asp Leu Trp Lys Arg Gly Gln Asp Arg Ala  
145 150 155 160  
Val Val Asp His Met Glu Pro Arg Val Pro Ala Ser Gln Glu Leu Ser  
165 170 175  
Thr Gln Lys Glu Val Gln Leu Pro Arg Arg Ala Ala Leu Gly Leu Arg  
180 185 190  
Gln Leu Pro Ser His Trp Ala Arg His Ser Pro Trp Pro Met Ala Ala  
195 200 205  
Arg Ser Gly Thr Arg Cys His Thr Leu Val Cys Ser Ser Leu Pro Arg  
210 215 220  
Gln Ser Ala Val Ser Gly Thr Ala Thr Gln Pro Arg Ala Ala Ala Val  
225 230 235 240  
His Ser Ser Lys Lys Pro Ser Ser Thr Pro Ser Ser Thr Pro Gly Pro  
245 250 255  
Ser Ala Gln Ile Ile His Pro Ser Asn Gly Arg Arg Gly Arg Gly Arg  
260 265 270  
Pro Pro Gln Lys Leu Arg Ala Gln Glu Leu Thr Leu Gln Thr Pro Ala  
275 280 285  
Lys Arg Pro Leu Leu Ala Gly Thr Thr Cys Thr Ala Ser Gly Pro Glu  
290 295 300  
Pro Glu Pro Leu Pro Glu Asp Gly Ala Leu Met Asp Lys Pro Val Pro  
305 310 315 320  
Leu Ser Pro Gly Leu Gln His Pro Val Lys Ala Ser Gly Cys Ser Trp  
325 330 335  
Ala Pro Val Pro  
340

<210> 10937  
<211> 2338  
<212> DNA  
<213> Homo sapiens

<220>

000220.69463960

<221> CDS  
<222> (99).. (1682)

<400> 10937

```

aaaaaatgct gaactgctct ttggaagtcg ccggtgctgt tgtagttgga gtctgttcac 60
gggcctgagc ttcgaggcca ggctcccggg tgctgttaat gttcggggcc gccgggccc 120
aaccgatcgg agctccagca gccgggaaca gctggcattt cagtagaacc atggaggagc 180
tggttcatga ccttgtctca gcattggaag agagctcaga gcaagctcga ggtggatttg 240
ctgaaacagg agaccattct cgaagtatat cttgccctct gaaacgccag gcaaggaaaa 300
ggagagggag aaaacggagg tcgtataatg tgcatacccc gtgggagact ggtcactgct 360
taagtgaagg ctctgattct agtttagaag aaccaagcaa ggactataga gagaatcaca 420
ataataataa aaaagatcac agtgactctg atgaccaa attagtagca aagcgcaggc 480
cgtcatcaaa cttaaataat aatgttcgag ggaaaagacc tctatggcat gagtctgatt 540
ttgctgtgga caatgttggg aatagaactc tgcgcaggag gagaaaaggta aaacgcattg 600
cagtagatct cccacaggac atctctaaca aacggacaat gaccagcca cctgagggtt 660
gtagagatca ggacatggac agtgatagag cctaccagta tcaagaattt accaagaaca 720
aagtcaaaaa aagaaagttg aaaataatca gacaaggacc aaaaatccaa gatgaaggag 780
tagttttaga aagtgaggaa acgaaccaga ccaataagga caaatggaa tgtgaagagc 840
aaaaagtctc agatgagctc atgagtgaag gtgattccag cagtctcagc agcactgatg 900
ctggattgtt taccaatgat gaggggaagc aagggtgatga tgaacagagt gactggttct 960
acgaaaagga atcaggtgga gcatgttgta tcatgtgagt tgtgccctgg tgggaaaagg 1020
aagatcctac tgagctagac aaaaatgtac cagatcctgt ctttgaaagt atcttaactg 1080
gttcttttcc ctttatgtca caccgaagca gaagagggtt ccaagctaga ctcatcgcc 1140
ttcatggaat gtcttcaaag aatattaaaa aatctggagg gactccaact tcaatggtac 1200
ccattcctgg ccagtggtt aacaagagaa tggttcattt ttccccgat tctcatcacc 1260
atgaccattg gtttagccct ggggctagga cagagcatga ccagcatcag cttctgagag 1320
ataatcgagc tgaaagagga cacaagaaaa attgttctgt gagaacagcc agcaggcaaa 1380
caagcatgca tttaggatcc ttatgcacgg gagatatcaa acggagaaga aaagctgcac 1440
ctttgcctgg acctactact gcaggatttg taggtgaaaa tgcccagcca atcctagaaa 1500
ataatattgg aaaccgaatg cttcagaata tgggctggac gcctgggtca ggccttggac 1560
gagatggcaa ggggatctct gagccaattc aagccatgca gaggccaaag ggattaggac 1620
ttggatttcc tctacaaaaa agtacttccg caactactac ccccaatgca ggaaaatccg 1680
cctaagaaaa gcaaagaaga aatgttttac agactttatt cactatgtcc cattgttcta 1740
aaatgataac atgacttctg tttttgaagc aaaaatctac attgcctcaa acacatcact 1800
ctagcttcct tactgcatac agtcctgcca tagtgagaga aatgggattt catcacaatt 1860
catggtgcta aaatgaaaac ctctgcactt taattttttt cagtaatttc cagctatttc 1920
taggtataaa gagcagctcg tttctcttat ttatttttagt ctcatgtgtc aatactttcc 1980
gatgctttgc ttaattcatg tatgtgtgca gtgctgcaat gccagacaa acgtgagcac 2040
accaccagt ttctaaaatg gaatagacag gaaaagattg tgttttatat catccctatc 2100
tattgtaacc caaaagacct accatcgcat cagtgaagtc cgaacacatc tttgtttgaa 2160
aggcttgta atttcatatt cttgaattg gcttcttggt gaggattttc tgacagagtg 2220
atacccatca attttctatc cttagacaat gtagtgtgaa gttcacagtt gacaaacaac 2280
aattaatgtt tcccttggat gttttgacaa aaataaacct catcgttgtt atcaccag 2338

```

<210> 10938  
<211> 528  
<212> PRT

09629459.072800

<213> Homo sapiens

<400> 10938

Met	Phe	Gly	Ala	Ala	Gly	Arg	Gln	Pro	Ile	Gly	Ala	Pro	Ala	Ala	Gly	1	5	10	15
Asn	Ser	Trp	His	Phe	Ser	Arg	Thr	Met	Glu	Glu	Leu	Val	His	Asp	Leu	20	25	30	
Val	Ser	Ala	Leu	Glu	Glu	Ser	Ser	Glu	Gln	Ala	Arg	Gly	Gly	Phe	Ala	35	40	45	
Glu	Thr	Gly	Asp	His	Ser	Arg	Ser	Ile	Ser	Cys	Pro	Leu	Lys	Arg	Gln	50	55	60	
Ala	Arg	Lys	Arg	Arg	Gly	Arg	Lys	Arg	Arg	Ser	Tyr	Asn	Val	His	His	65	70	75	80
Pro	Trp	Glu	Thr	Gly	His	Cys	Leu	Ser	Glu	Gly	Ser	Asp	Ser	Ser	Leu	85	90	95	
Glu	Glu	Pro	Ser	Lys	Asp	Tyr	Arg	Glu	Asn	His	Asn	Asn	Asn	Lys	Lys	100	105	110	
Asp	His	Ser	Asp	Ser	Asp	Asp	Gln	Met	Leu	Val	Ala	Lys	Arg	Arg	Pro	115	120	125	
Ser	Ser	Asn	Leu	Asn	Asn	Asn	Val	Arg	Gly	Lys	Arg	Pro	Leu	Trp	His	130	135	140	
Glu	Ser	Asp	Phe	Ala	Val	Asp	Asn	Val	Gly	Asn	Arg	Thr	Leu	Arg	Arg	145	150	155	160
Arg	Arg	Lys	Val	Lys	Arg	Met	Ala	Val	Asp	Leu	Pro	Gln	Asp	Ile	Ser	165	170	175	
Asn	Lys	Arg	Thr	Met	Thr	Gln	Pro	Pro	Glu	Gly	Cys	Arg	Asp	Gln	Asp	180	185	190	
Met	Asp	Ser	Asp	Arg	Ala	Tyr	Gln	Tyr	Gln	Glu	Phe	Thr	Lys	Asn	Lys	195	200	205	
Val	Lys	Lys	Arg	Lys	Leu	Lys	Ile	Ile	Arg	Gln	Gly	Pro	Lys	Ile	Gln	210	215	220	
Asp	Glu	Gly	Val	Val	Leu	Glu	Ser	Glu	Glu	Thr	Asn	Gln	Thr	Asn	Lys	225	230	235	240
Asp	Lys	Met	Glu	Cys	Glu	Glu	Gln	Lys	Val	Ser	Asp	Glu	Leu	Met	Ser	245	250	255	
Glu	Ser	Asp	Ser	Ser	Ser	Leu	Ser	Ser	Thr	Asp	Ala	Gly	Leu	Phe	Thr	260	265	270	
Asn	Asp	Glu	Gly	Arg	Gln	Gly	Asp	Asp	Glu	Gln	Ser	Asp	Trp	Phe	Tyr	275	280	285	
Glu	Lys	Glu	Ser	Gly	Gly	Ala	Cys	Gly	Ile	Thr	Gly	Val	Val	Pro	Trp	290	295	300	
Trp	Glu	Lys	Glu	Asp	Pro	Thr	Glu	Leu	Asp	Lys	Asn	Val	Pro	Asp	Pro	305	310	315	320
Val	Phe	Glu	Ser	Ile	Leu	Thr	Gly	Ser	Phe	Pro	Leu	Met	Ser	His	Pro	325	330	335	
Ser	Arg	Arg	Gly	Phe	Gln	Ala	Arg	Leu	Ser	Arg	Leu	His	Gly	Met	Ser	340	345	350	
Ser	Lys	Asn	Ile	Lys	Lys	Ser	Gly	Gly	Thr	Pro	Thr	Ser	Met	Val	Pro				

09629469.072800

355	Ile Pro Gly Pro Val Gly Asn Lys Arg Met Val His Phe Ser Pro Asp
370	375 380
Ser His His His Asp His Trp Phe Ser Pro Gly Ala Arg Thr Glu His	
385	390 395 400
Asp Gln His Gln Leu Leu Arg Asp Asn Arg Ala Glu Arg Gly His Lys	
405	410 415
Lys Asn Cys Ser Val Arg Thr Ala Ser Arg Gln Thr Ser Met His Leu	
420	425 430
Gly Ser Leu Cys Thr Gly Asp Ile Lys Arg Arg Arg Lys Ala Ala Pro	
435	440 445
Leu Pro Gly Pro Thr Thr Ala Gly Phe Val Gly Glu Asn Ala Gln Pro	
450	455 460
Ile Leu Glu Asn Asn Ile Gly Asn Arg Met Leu Gln Asn Met Gly Trp	
465	470 475 480
Thr Pro Gly Ser Gly Leu Gly Arg Asp Gly Lys Gly Ile Ser Glu Pro	
485	490 495
Ile Gln Ala Met Gln Arg Pro Lys Gly Leu Gly Leu Gly Phe Pro Leu	
500	505 510
Pro Lys Ser Thr Ser Ala Thr Thr Pro Asn Ala Gly Lys Ser Ala	
515	520 525

<210> 10939  
 <211> 1945  
 <212> DNA  
 <213> Homo sapiens

<400> 10939

tcagattatg attaaattag atattaaaca cttcaaccac ataagaatat tgaggactgt	60
tgaatgagtc ctgtgctctg gtggtcctgg aaacttaattt tatttatgaa ttttcagtca	120
ttagagaaga gtatggtgtg gatatgggag gttggattag ccgactaaac tttgaagttt	180
gcaactttag cagatgtttg gatagaagtt aacacagtag ttcaaatga tttcgactt	240
catggtttat agaaatgctt tcacattcat atctgaatat ttgaaacaac ctagtgggta	300
ggtaggtaag caattttatc tgtgtttccc atggaagaaa ctgaggctgg gagatgttca	360
ttgtttgtta tccaaggcca tatagctagt aagtagaaga gtccagatgc aaaccaggc	420
cacctgaaca atgttcacat cattttacca tggagaagag attagtgtt ttatttgtct	480
aacactctgg tcagtgaat taaagtatct ccgtgtgaaa cagcatgcaa aaggctttgt	540
ttctaataatt ttttaaaaat ccttttagat cgttgggaat taaacaaata cctagggcag	600
tgtggactta cctgaagtct tttgacattt tatgaagttc tgttaaacct agaaataaag	660
tcaaataaat tttttattgc ttttagagaca tagttattgg aagttattta tagtttaa	720
atgtagccat aataattatt cgtgactata tttcaagata gtttattcag caagcactta	780
ctgagaacct accatgtact gggcaactgtg ttcttaaaaag gactaattga tgagctcagt	840
ctagtggggg agatgagtaa accagcaatt ataatacaga gtactacttg agtagaggta	900
cgcataggga aaacctgtta atagaggag cactgtctgt gttacctaat gcagacttga	960
ggtaattcga aaaggcatgt taagccatgt gatgcttgag tacaatcttg aaagcatgtt	1020
aatacttaac ttggtaagaa cattttaagc gaataacagc ctatgcaaat acacagaggc	1080
atttgagaat gcggcactta gagggagcta caaatagatt gacatggcaa gagtatgcac	1140

000220" 69463960

tgactgttaa	gggatggaag	gagttgagac	cagagagaga	gagacatgat	taggattgtg	1200
aagagcotta	gatgacatgc	ttttaaaaaag	ttagtacttt	ttcctaaaga	taattgggag	1260
tcattggtga	attttaatag	ggaaatgctt	gctatccatt	tatgtttgca	aagattacat	1320
aatagtgtgg	aggatggaat	tggtggtgca	ggatatgaga	ttggaagcaa	gaataccagt	1380
tagttacgat	agtaaccatg	tcataaatgc	tccacgtcca	aactggtact	gacattagag	1440
agaaaagaaa	gaaatttgag	aaataattag	aaggttgaga	tttaactagt	cttggtgaga	1500
gagagagata	gtcttcagat	gtggttttga	caaattgggtg	gatggcgatg	ctggtcaaag	1560
ccaatacatg	gttgaaaaag	ccggttttctg	tggctagagg	gtgttgatga	gctcagtttg	1620
agatatattt	agttgaaggt	acctgtggga	atttacgggt	agaaataact	gttaggaggc	1680
tgggcatggt	gtctcacatc	tgtaatccca	gcagtttggga	ggctgagggtg	aacagattgc	1740
ttgagatcag	gaattttgag	accagcctgg	tcaaagtggg	gaaaccccat	gtctactaaa	1800
aattcaaaaa	ttagctgaca	tggtggcggg	cgctgtaat	cccagctgct	tgggatgctg	1860
gottgaacct	gggaggtgga	gtttgcactg	agccaagatc	acgtcactca	ctccagcctg	1920
ggcgacagag	caagtctcaa	taaag				1945

<210> 10940  
 <211> 2134  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (173).. (991)

<400> 10940	
agaaggaaaag	ttcctcaaca taacagaagc catttatgaa aaatctacag ctgatggagg 60
aatattttcc	aagcaaattg aaagcaaaaa aaaaaccagg gattgcaatc ttagtctctg 120
ataaaacaga	ctttaaacca acaaagatca aaagagacaa gggcattaca taatggtaaa 180
aggatcaaaag	caacaaaaag agctaactat cctaaatata tgtgcatcca atacaggagc 240
accagtttc	ataaaaaaag ttcttagaga cctacaaaaga gacttagact cccacacaat 300
aatagtggga	gactttaaca acccgtgtc aatatttagac agatcaataa gacagaaaat 360
tgacaaggat	atccaggact tgaactcagc tctggaccaaa gcagacctaa tagacatcta 420
cagaaccctc	caccccaaat caacaaaaca tacacttttc tcagcaccac aatgcactta 480
ttctaaaact	gaccacttaa ttggaagtaa agcactcctt agcaaatgca gaataaggga 540
aatcataaca	aatagtctct cagaccacag tgcaatcaaa ttagaactca ggattaagaa 600
actcactcaa	aaccacacaa ctacatggaa actgaacaac ctgctcctga atgactactg 660
ggtaaataac	gaaatgaagg cagagataaa gatgttcttt gaaaccaatg agaacaaaga 720
cagagcatat	cagaacctct gggacacatt taaagcactg tgtagaagga aatttatagc 780
actaaatgcc	cacaagagaa ggcagagaag atctaaaatc gacacactaa catcacaatt 840
aaaagaacta	gagaagcaag agcgaacaaa tccaaaagct agcagaagac aagaaataac 900
taagatcaga	acagaactga aggagagaca cgaaaaacc ttcaaaaaat cagtgaatcc 960
agagttggtt	ttcttgaaaa gatcaacaaa ataaataggc cactagccag actaataaaa 1020
aagaaaagag	agaatcaaaa tagatgcaat aaaaaatgat aaagggaata tcaccaccga 1080
tcccacagaa	atacaacta ccatcagaga atactataaa cgctctacg caaattaact 1140
agaaaatcta	gaagaaatgg ataaattcct gtacacatac accctcccaa gactaaacca 1200
ggaagaggtc	gaatccctga ataggccaat aacaagttct gaaattgagg cagcaattaa 1260
tagcctatta	accaaaaaaa agtccaggac cagacggatt cacagccaaa ttctaccaga 1320



```

ggtacgaaga ggagctggta ccattccttc tgaaactatt ccaaacaata gaaaaagaga 1380
gaatcctccc taacttatTT tatgaggcca gcatcatcct gataccaaaa cctggcagag 1440
acaatagaaa aaaagaaaat ttcaggccaa tatcactgat gaacatcgat gtaaaaatcc 1500
tcgataaaat actggcaaac cgaatccagc agcgcaccaa aaagcttata caccacgatt 1560
aagccggctt catccctggg atgcaaggct gggtcagcat acacaaatga ataaacataa 1620
tccatcacac aaacagaacc aatgacaaaa gccacatgat atttacctgt ataccttttt 1680
aagtacaaat aaatctgggc tgtcattatt tatgctaaca ctgggtttgt gtccctggaa 1740
tctatctatc taagtttttt tttctttttt tctttttcca ttttccagta cctattagac 1800
agaatggctt tcaatttttt ctcttacttc caaacttagt cattataaga agatgtaggc 1860
caggcgagct ggctcattac tgtaatccca gcaactatggg aggctgaggc aagtggatta 1920
cttgagtcca ggagttcgag accagcctgg ccaacatggg gaaaccccat ctctactaaa 1980
aatacagaga ttagcagggc atggtggtgc atgcctgtaa tcccagctac tcaggagggt 2040
gagtcaggag aatcacttga acccgagggc agaggttgca ggcagattgt gccactgcac 2100
tcctgcctgg gaaacagagc aagactctgt ctcc 2134

```

<210> 10941  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

<400> 10941

Met	Val	Lys	Gly	Ser	Lys	Gln	Gln	Lys	Glu	Leu	Thr	Ile	Leu	Asn	Ile	1	5	10	15
Cys	Ala	Ser	Asn	Thr	Gly	Ala	Pro	Ser	Phe	Ile	Lys	Lys	Val	Leu	Arg	20	25	30	
Asp	Leu	Gln	Arg	Asp	Leu	Asp	Ser	His	Thr	Ile	Ile	Val	Gly	Asp	Phe	35	40	45	
Asn	Asn	Pro	Val	Ser	Ile	Leu	Asp	Arg	Ser	Ile	Arg	Gln	Lys	Ile	Asp	50	55	60	
Lys	Asp	Ile	Gln	Asp	Leu	Asn	Ser	Ala	Leu	Asp	Gln	Ala	Asp	Leu	Ile	65	70	75	80
Asp	Ile	Tyr	Arg	Thr	Leu	His	Pro	Lys	Ser	Thr	Lys	His	Thr	Leu	Phe	85	90	95	
Ser	Ala	Pro	Gln	Cys	Thr	Tyr	Ser	Lys	Thr	Asp	His	Leu	Ile	Gly	Ser	100	105	110	
Lys	Ala	Leu	Leu	Ser	Lys	Cys	Arg	Ile	Arg	Glu	Ile	Ile	Thr	Asn	Ser	115	120	125	
Leu	Ser	Asp	His	Ser	Ala	Ile	Lys	Leu	Glu	Leu	Arg	Ile	Lys	Lys	Leu	130	135	140	
Thr	Gln	Asn	His	Thr	Thr	Thr	Trp	Lys	Leu	Asn	Asn	Leu	Leu	Leu	Asn	145	150	155	160
Asp	Tyr	Trp	Val	Asn	Asn	Glu	Met	Lys	Ala	Glu	Ile	Lys	Met	Phe	Phe	165	170	175	
Glu	Thr	Asn	Glu	Asn	Lys	Asp	Arg	Ala	Tyr	Gln	Asn	Leu	Trp	Asp	Thr	180	185	190	
Phe	Lys	Ala	Leu	Cys	Arg	Arg	Lys	Phe	Ile	Ala	Leu	Asn	Ala	His	Lys	195	200	205	

09629469.072300

Arg	Arg	Gln	Arg	Arg	Ser	Lys	Ile	Asp	Thr	Leu	Thr	Ser	Gln	Leu	Lys
210						215					220				
Glu	Leu	Glu	Lys	Gln	Glu	Arg	Thr	Asn	Pro	Lys	Ala	Ser	Arg	Arg	Gln
225						230				235					240
Glu	Ile	Thr	Lys	Ile	Arg	Thr	Glu	Leu	Lys	Glu	Arg	His	Glu	Lys	Pro
				245					250					255	
Phe	Lys	Lys	Ser	Val	Asn	Pro	Glu	Leu	Val	Phe	Leu	Lys	Arg	Ser	Thr
			260					265					270		
Lys															

<210> 10942  
 <211> 4121  
 <212> DNA  
 <213> Homo sapiens

<400> 10942

aaacaactat	gatgctaatt	aggaggagga	agaatgtttt	caaagtcttt	caccaggtat	60
cgatattcat	ctcaaagagt	ttgaacaaca	gattcaattc	tgtgtaggga	ccatttcctc	120
atttattctt	tattcctact	aaatcagaaa	taccaaattc	ataagtcatt	tggaatgggt	180
aacaaatggt	cgatggtttg	tcaactagtc	ttgacaaaacg	gattctacaa	tgtacagaaa	240
ttatggagac	agttttcact	gatagatgtt	cagtgcctca	aaggaaactc	attaagatga	300
gggaatggcc	tctcaaattg	aacaggattg	ctgaatatat	caacacaaaa	gatcactagc	360
aaatggattc	ctaatgaatt	cctggttgaa	tttgcctccg	ataattatgt	attcatattc	420
agtttgagca	ttcagatgtg	ttaaatatgg	ccaataatag	caactgattt	tttcctcctt	480
taatttagaa	tatctttaag	tagttagaag	gaaacccttg	ttaactaatc	cattgacatc	540
aaaatttaac	tttttaagga	actttttgctg	tctctcacta	aatattagaa	atgatgatat	600
gttgttcgtg	aagtcataaa	gtcaggcttc	tccactctct	gtttgatatt	tatgtgtatg	660
tgtgctcat	aaaaatcatc	acactggtag	agattcttgt	tctcacaatg	cagattcaca	720
gtgtattttc	tccctgaaaa	cttggttatt	tctttggaac	ctttatgcca	aatgatatat	780
aatttgcagt	actattttca	tgtctttcta	cttttacatc	tccgatggat	taatgttgca	840
gcattatttc	attttgtgtg	agttggtact	ctaaaatata	ataaggcaga	cagctttaaa	900
cccatgtgat	gtttaatatc	ctacaaagac	caaagagtca	tagtggatat	ttccctcaat	960
ctaaaaataa	gggaaaatac	taataagcaa	attatataaa	aatgaatctg	cttaaataga	1020
cagcaccctg	tttgccagat	gttacctgag	acaaccaatc	catatatccc	atgtatgtga	1080
gatgtttaaa	aatgtaagaa	ttactaagga	catgataaat	ttttatgaga	atcataatta	1140
atcatatagt	tcaaatttca	tggtgcctgt	ctattgccaa	cccctagttt	ttcacaggtt	1200
tcacattgga	aagcaatggg	ttgtcctttg	gcttatttta	ttttagtaat	taactgtcct	1260
ttaaaaacaa	taaaactttc	agccttcagt	gactttgata	acctatgtga	taaagtcaga	1320
actcattagc	ctgatattca	aggtcttccc	agagaggctc	catcttacct	gctctgactt	1380
ctgtcttata	cctgctgata	cacctggggt	gtctgctgaa	agcaggtcag	cacaatgact	1440
cagattcttc	cctttctttc	cctctcccat	gccccaggat	ttgtttgtac	aactggccca	1500
ggaatcctga	cttcatttat	tctctatggg	ttaaccagga	ttcttgcttg	tgaatggaaa	1560
caggataatg	gagctaaacc	taaatggcat	tttctaacca	tgtcttcatt	attcattctc	1620
tgaaccatcc	tctctaatac	gtttttactg	atttcttccc	caaatatgca	tttgctttct	1680
catttcaact	tatatttaca	ctgttctatt	catcagaaat	gtccctgtct	tgtctgcctc	1740
gtcaaattct	tcaactccca	actcctgtct	tacttccat	ataaaatctt	attaggttac	1800

09629469.072300

09629469.072300

```

cttagctgaa ctatcttctt ctttctggaa ttcttattgc aattactttt gttgtaatta 1860
tttaggcagt ggtttctttg atatcattta ctgtgttttc tggcaattgc actgaaattg 1920
tatactgctc ttcaatgaat gattatctat ttccccaac tagattttaa gcaccttgag 1980
gacaaatatt gcctcatatg cctgtatttc tgttccaggt ctttggcata ctgttaataa 2040
tgaacaaata ttatattaca gtaaaactgt atcccaagat tttctcagac tcatctaaaa 2100
tataggcaag aacttaataa cactaatatg cctgttcaat gaagcattct attcaaaatg 2160
ttttattaat tctttacagc ttctcagca tctgattgga atcagtggca ttttaattta 2220
tatgtctatt taacaaatac taatatagtg tgcactgtgt gttactcatt ttctatgcac 2280
tttacaataa ataattttat ttaactttca agacaaccat ctgaaatagg tgctattatt 2340
atccctgttt tatgtatgag gaaatggatt tactgagaag taactcagcc aaggatgatg 2400
aattagttac taataggttc aggatttgaa cctacatttt taaccactgt gctctaggaa 2460
cttagttaac agctttaatg aatgaaatgg ttctgctaag tgatgtaaga aactacttac 2520
atgttttggt ggctagggtca cctgtcactc tcagttcgga atctttcagg aaatgtcctt 2580
tagtctctgg tgggaggtgt actgcaacta accgtccttt gaatttatgt tgccatgtac 2640
agttcctgta attttatttc ctctttctat ctttactttt gggatctaag cttccttgaa 2700
tgtttagcct ttttgtcttt ttagaaaaata ttgttccctt tatgaatatg tctcttaatt 2760
gctagagttt cctaatagcc aaatgaaaaat tacatttttg cttagaaaaat gctttcatct 2820
gtatccactg gctatatatc tgcaaccaaa gtaaagtgtg gaattgggta tttgttgttt 2880
gcagcatttg agcagtgtac acatcaaatg tggttaattc tattaccagt aatatttcta 2940
gtttcttcta aaattaccat aaaggtttag gtctagatta gataattatt tccaatcaat 3000
ctcctttcaa gttggaaatg aatgaagtcc catgttttct gtgtgtattt tcatatatatt 3060
tggcatgata attattaata gcaatgtatt actattgccc ttttgcttac ttaaaagtat 3120
attttgcagt ggtttatttt attctagggtg ggagaataac acgttgatat cttcttgaaa 3180
taaaaattat atgtcaatga atgtgacaat gttctatgta agtagcaatc gaggaatgac 3240
tgaaaagggg ttattaaata tttcaatgca tgggaaaaata tttcttctac ctatttactg 3300
cctaaagcaa atgctaaccg agaagatatt tatgtcttgg tttagaaaatc tgtagagtga 3360
cagagcaatc tgagctctgt aatgtatgca aaatttatca ggctcagaga gacatgagta 3420
tgggactttg gccacatacc atacctgtgc ccaggggacaa ctgttaggaa acattttgtt 3480
ccagactagt tgtgtcacct attatcttca tgttccctgga atttgtgata caaagaacaa 3540
tgtatagcca atcgatagct tatgtatttg aatgtatatt cttggtaaac aacttaggaa 3600
ctgcctcttg ttttttccct aaaaaaagcc acttgtaatg gctggtagtt ggagtgtata 3660
atcagagcaa cttgaatcta cgctcctgag tggccatctt caacgatcac cctggaataa 3720
actcttttta aactagaaaa caaaaacaaa ggaaacaaca aaaaagaaga aatctataga 3780
gtgaactata ttttccacc ttgcaaatag aaggggcaaa aatcaacctt gcctatctga 3840
tgatttagtg tcatagggat tccaaaatgt tatttgtaac gtgtaccttg atatgctaatt 3900
ggtgaaatct cctgtttctt gatttgggtc tctcatctta catttcttac ctcaaatcca 3960
ttctgcgact tcaccagcag attaatattc ttctctgggc tcttggaatt ttaataaaaa 4020
cagcatggtc atggggtttc atgaagcttg cagccctctg ggggatgcag ataataatca 4080
atcaatctca taattaaatg taatttttaa taagagctta c 4121

```

<210> 10943  
 <211> 1548  
 <212> DNA  
 <213> Homo sapiens

<400> 10943  
 ctgatgcatg acctctttga cagttgcctt tgttcatgat tccatgtttc ctggtttatt 60

ttattggggt	acagggtgag	gtctggaaga	cctggaaagg	aaactcactt	ttttggtttg	120
acagtattaa	tgcaatcatc	tagttcatac	cttgtaagcc	cacttattat	ttcctctgcg	180
tgtgtttttt	ctggtttagc	ggattagctg	cactgtctct	tcaaaggctg	tccaatcaag	240
gaggggttat	taaaaccagg	gcgatttatg	actgagaatt	aattagagaa	gcattttcat	300
gcacaacatc	caattttttg	attagcaatg	gagcagggcc	gcaattaaca	ctcgaggaag	360
cttaaatttc	cagctttttg	attctcagga	aatgagatta	tcaaaccagg	gtcagacact	420
tgacagcaaa	gtgggagtgg	gggagtgtga	aattatatgt	aaaaaaaaaa	aaaaaaaaaa	480
aaaattccag	agtctagaaa	ttcggtcatt	tttctcttta	tgtaatggta	agaattaaga	540
atcctcacat	ctgcaaccaa	aaatacaagc	ctgggtgtgt	acactaaagg	gtaaaacagg	600
gatagatata	agctgttatg	ctattcttca	ggcaacactg	tggataagtg	acattcagat	660
gtttactgta	aagaaaaatt	tgaatacatt	tgtattgaag	ggcttttaga	aaagagcatt	720
actacacaga	actgagagtt	gaaaatatga	agggtgtgga	gattaagaga	acgcgtttac	780
tttaaaaagat	aattttaaaag	ttatctttcc	aggctgacac	ggtggcccac	tcctctagtc	840
ataacactct	gggaggctgt	ggtgggacga	tcctctgagc	ccaggagttc	atagaccagc	900
ctgggtaata	tagggagacc	ccatctctat	ctaaaatttt	ttttaaaaga	aaataaatat	960
ctttacagtt	atttttctta	gtcctatgtt	ctttattttg	gtgttttcca	ttggatacct	1020
gcatgccaag	tgttgtgcta	cagtattact	gaagagtata	atggaagtaa	tgtcctgctg	1080
aaaattttct	ttgagatatt	aatcattaat	aatttatata	ttgctattta	atacttacat	1140
aggctcttag	ccttttaaaag	gatttctgtt	tgacagcttt	tataattgaa	agttattcca	1200
tttttttttt	aattttgcat	gcttgaaaaa	gatgaaaaca	gtgatttaaa	ttatgaagta	1260
tggggccagg	tgcaagtggct	catgctggta	atcccagcac	tttgagaggc	taaggcaagt	1320
gggtcacttg	agcccaagag	ttcaagacca	gcctggccaa	catgggtgtg	aaccccgctc	1380
gtactaaaaa	tacaaaaatt	agccaggcgt	ggtggtgcat	gcctgtaatc	ccaggtactt	1440
gggaggctga	ggcacaggaa	ttgcgtgaac	ccaggaggca	gaggttgcat	tgagccaaga	1500
tcacatcacc	gcactgcagc	ctgggtgaca	gagtaagact	ctgtctcc		1548

<210> 10944

<211> 1349

<212> DNA

<213> Homo sapiens

<400> 10944

gttttataaa	tggggtaggg	accaactgaa	agacaggaaa	ataaggccct	tgatgccatt	60
aatcttttat	cctcttgccc	tcattggtat	cttcatccca	ccttgggtcc	cagtcccctc	120
tcctgttccc	acaccacctg	tcacatgcaa	gggatgatgg	ctgtctgctc	ctgggtctat	180
gctttgtgga	agaaggatgc	tgtggaggga	gcataatcaa	gctctaaagt	ggcattctct	240
cccacccttt	gcagttctgc	ctcctggggg	cattgctggc	ccccatccga	gtgcttctgg	300
cctttatcgt	cctctttctc	ctctggccct	ttgcctggct	tcaagtggcc	ggtcttagtg	360
aggagcagct	tcaggagcca	attacaggat	ggaggaagta	agtgagggat	cagccccag	420
agaccctact	tctcttccct	gctgtctatt	cggctccctc	tttgagaaga	agaaaagaga	480
gcattctgaa	actattctgt	ctagcttggg	tagatgagat	gagtcagcca	agctcagacg	540
tggttcccag	acctcacctc	taagtaatgt	gccctgatag	gtcccaaaagt	ggccagagac	600
cttggccctt	tggtcacatc	ctatttaagg	gtaaaagagg	ggtgccctac	tttcccgggtg	660
totgaacctg	ggggcgggtg	agggttagaa	ccactgcttc	cgctgatacc	cagccttgcc	720
ctggcaggac	tgtgtgccac	aacgggggtg	taggcctgag	cgcctgtgtg	tttttctgtc	780
tgggcttcct	ccggattcgc	gttcgtggcc	agcgagcctc	tgccttcaa	gcccctgtcc	840
ttgttgctgc	cccacactcc	actttctttg	acccatttgt	totgotgccc	tgtgacctgc	900

09629469.07300

ccaaagtgtg	gtcccagagct	gagaaccttt	ccgttcctgt	cattggaggt	gagagagttc	960
aaagggggtg	aagggcaggg	tgacaactct	gggcaaaaaa	agtcaggaat	ggagacactg	1020
gagtgaagaa	ctggcctcaa	agtggggagg	gactgttggc	aagtgaata	taaattaaca	1080
ccattagtca	accagtctta	gattctgagg	gctgggacag	agagaagggt	ttggagggag	1140
ttctggtcag	ttctctaaaa	ggacaactac	tataaaggga	ttgtcccagg	gcaaagataa	1200
caggccaggc	acggtggctc	gcgcctataa	tcccagcacg	ttgggaggcc	aaggcgggcg	1260
gatcacctga	ggtcgggagt	tcgagaccag	cctgaccaac	atggagaaac	cctgtctcta	1320
ctaaaaatac	aaaaaaagta	gccgggcgt				1349

<210> 10945

<211> 1490

<212> DNA

<213> Homo sapiens

<400> 10945

tgcttttgtg	acttgactta	gaagctgaaa	ttgggaattt	ccttagatga	gacagtacat	60
agttcatctg	tgatatcaga	tcagttcacc	aatacatgct	acatacttgt	gcccctgaag	120
ctttgtaaa	gcctaggaca	ttccagttct	cctcactcag	tttggtgaac	aaggacatgc	180
ccatgtcaag	tacagtaccc	catgagacac	tggctgagtg	gggttatgtg	tcatttccca	240
tgctctcagt	cagcagatcc	tctttggcca	gtctgcatct	ttcatgcaag	gagagagctt	300
catacccact	tcttggttaag	cagggctctt	aaatgtcaaa	cgttccttgg	acagatggct	360
tccagtccac	agaagcactt	cttctagtgc	ttccccttca	ctccccaaga	ggctgcttct	420
tgactaatga	ctgtgggacc	taacttggtc	gttcagggtga	caaagaatgt	tccccaagtc	480
tgtagctgac	aattgatggt	tctctctgaa	cagcgcttta	gggtgggctt	ttccccccac	540
tctttttaga	gacaaggtct	tgctctgtca	cccaggctag	agtgcagtgg	caccatcagt	600
gactcaactgc	agccttgaat	actgggctca	agccatccta	tcccctctca	cctcagcctc	660
ccaagtagct	gggactacag	gtgcacacca	ctgcactcag	ctaattttta	aattttttgt	720
agagataggg	tctcactttg	ttgccggggg	tggctctgaaa	ctcctggctt	caagcagtcc	780
tcccaccttg	gcctcccaaa	gcgtaaggat	tataggcatg	agccactgcg	cccagtctag	840
agtgggcttt	ttttattgtc	ctccaaaggt	acagagggtt	cttcatgagt	catctgggtga	900
aaaggtatag	aataacatca	ctagaataac	atcactgtcc	gcctgtgtcc	aggttcaagg	960
tcttgccttg	aaggtgacag	ctctacctgt	actgacaaa	cctctgtctg	acctgttagc	1020
agagagaccg	tcattccagg	ggtgggggct	gtttcttcac	agagccaggg	ctgcaacaca	1080
aaaggtgtga	taccaagtac	cgtgggggct	tcatccagac	gcagagaact	tctttggggt	1140
tacatggcaa	ataagtcaac	ctttctgttt	cctaaagggt	ttcacaaaaa	aaggcatctt	1200
tgaatggcct	cagcagtgtc	ctcacagaag	aaagtaaggg	ttttatcatt	ccgagaggca	1260
ctgggtgggct	cctctacttt	cagtttaggt	gaaatggggt	ctctgccact	acctcttcac	1320
cagtgttgca	cagctgacct	ttggagaggg	tcagcatttc	cagcacacac	cagccctggg	1380
gttagcttga	atctgtgcga	cttatgccac	acagtttagag	gagaggcctg	cagttctgga	1440
gaggagagtg	gcatttgaag	ttgctgggcg	acagagcgag	actctgtctc		1490

<210> 10946

<211> 2065

<212> DNA

<213> Homo sapiens

09629469.072800

<220>  
<221> CDS  
<222> (6).. (680)

<400> 10946

```

aaaccatgaa ccgatgcccc cgcaggtgcc ggagcccgcg ggggcaggca gcgcgatccc 60
tctaccagct ggtgactggg tcgctgtccc cagaccgcgt ggacgatgaa tttgaattgt 120
ccaccgtgtg tcaccggcct gaggggtctgg agcagctgca ggagcaaacc aaattcacgc 180
gcaaggagtt gcaggtcctg tacgggggct tcaagaacga atgtcccagc ggaattgtca 240
atgaggagaa cttcaagcag atttactccc agttctttcc tcaaggagac tccagcacct 300
atgccacttt tctcttcaat gcctttgaca ccaaccatga tggctcggtc agttttgagg 360
actttgtggc tggtttgtcc gtgattcttc ggggaactgt agatgacagg ctttaattggg 420
ccttcaacct gtatgacctt aacaaggacg gctgcacac caaggaggaa atgcttgaca 480
tcatgaagtc catctatgac atgatgggca agtacacgta ccctgcactc cgggaggagg 540
ccccaaggga acacgtggag agcttcttcc agaagatgga cagaaacaag gatggtgtgg 600
tgaccattga ggaattcatt gagtcttgtc aaaaggatga gaacatcatg aggtccatgc 660
agctctttga caatgtcatc tagcccccag gagagggggt cagtgtttcc tggggggacc 720
atgctctaac cctagtccag gcggacctca cccttctctt cccaggctca tctcatcct 780
acgcctccct gggggctgga gggatccaag agcttgggga ttcagtagtc cagatctctg 840
gagctgaagg ggccagagag tgggcagagt gcatctcggg ggggtgttccc aactcccacc 900
agctctcacc cccttcttgc ctgacaccca gtgttgagag tggccctcct gtaggaattg 960
agcggttccc cacctcctac ccctactcta gaaacacact agacagatgt ctcttgctat 1020
ggtgcttccc ccatccctga cctcataaac atttccccta agactcccct ctccagagaga 1080
atgctccatt cttggcactg gcttgcttct cagaccagcc attgagagcc ctgtgggagg 1140
gggacaagaa tgtataggga gaaatcttgg gcctgagtca atggataggt cctaggagggt 1200
ggctgggggt gagaatagaa gggcctggac agattatgat tgcacaggca taccaggtta 1260
tagctccaag ttccacaggt ctgctaccac aggccatcaa aatataagtt tccaggcttt 1320
gcagaagacc ttgtctcctt agaaatgccc cagaaaattt ccacaccctc ctcggtatcc 1380
atggagagcc tggggccaga tatctggctc atctctggca ttgcttctc tccttctttc 1440
ctgcatgtgt tgggtggtgt tgtggtgggg gaattgtgat gggggatgtc ctggctgatg 1500
cctgccaaaa ttcatccca ccctccttgc ttatcgtccc tgttttgagg gctatgactt 1560
gagtttttgt ttccatgtt ctctatagac ttgggacctt cctgaacttg gggcctatca 1620
ctcccacag tggatgcctt agaagggaga gggaaggagg gaggcaggca tagcatctga 1680
accagtggtg ggggcattca ctagaatctt caatcaacct gggctctccc caccaccacc 1740
cagataacct cctcagttcc ctagggtctc ttcttgcttg actcaatcta cccagagatg 1800
ccccttagca cacctagagg gcagggacca taggaccag gttccaaccc cattgtcagc 1860
accccagcca tgcggccacc ccttagcaca cctgctcgtc ccatttagct taccctccca 1920
gttgggcaga atctgagggg agagccccc gagagcccc ttccccatca gaagactgtt 1980
gactgctttg cattttgggc tcttctatat attttgtaaa gtaagaaata taccagatct 2040
aataaaacac aatggctatg cacag                                     2065

```

<210> 10947  
<211> 225  
<212> PRT  
<213> Homo sapiens

<400> 10947

Met Asn Arg Cys Pro Arg Arg Cys Arg Ser Pro Leu Gly Gln Ala Ala  
 1 5 10 15  
 Arg Ser Leu Tyr Gln Leu Val Thr Gly Ser Leu Ser Pro Asp Arg Val  
 20 25 30  
 Asp Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu  
 35 40 45  
 Glu Gln Leu Gln Glu Gln Thr Lys Phe Thr Arg Lys Glu Leu Gln Val  
 50 55 60  
 Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu  
 65 70 75 80  
 Glu Asn Phe Lys Gln Ile Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser  
 85 90 95  
 Ser Thr Tyr Ala Thr Phe Leu Phe Asn Ala Phe Asp Thr Asn His Asp  
 100 105 110  
 Gly Ser Val Ser Phe Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu  
 115 120 125  
 Arg Gly Thr Val Asp Asp Arg Leu Asn Trp Ala Phe Asn Leu Tyr Asp  
 130 135 140  
 Leu Asn Lys Asp Gly Cys Ile Thr Lys Glu Glu Met Leu Asp Ile Met  
 145 150 155 160  
 Lys Ser Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg  
 165 170 175  
 Glu Glu Ala Pro Arg Glu His Val Glu Ser Phe Phe Gln Lys Met Asp  
 180 185 190  
 Arg Asn Lys Asp Gly Val Val Thr Ile Glu Glu Phe Ile Glu Ser Cys  
 195 200 205  
 Gln Lys Asp Glu Asn Ile Met Arg Ser Met Gln Leu Phe Asp Asn Val  
 210 215 220  
 Ile  
 225

<210> 10948  
 <211> 2598  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (10).. (2316)

<400> 10948  
 ggatttttcta tgtttgcaca tgccccctg accaatattc cactgtgtaa agtaattaga 60  
 ttcaacatag actacacgat tcatttcatt gaagagatga tgccggagaa tttttgtgtg 120  
 aaagggttg aactcttttc actgttccta ttcagagata ttttggaatt atatgactgg 180  
 aatcttaaag gtcctttgtt tgaagacagc cctccctgct gcccaagatt tcatttcattg 240  
 ccacgttttg taagatttct tccagatgga ggaaaggaag tgctgtocat gcaccagatt 300  
 ctctgtact tgtaaggtg cagcaaagcc ctggtgcctg aggaggagat tgccaatatg 360

09629459.072800

```

cttcagtggg aggagctgga gtggcagaaa tatgcagaag aatgcaaagg catgattgtt 420
accaaccctg ggacgaaacc aagctctgtc cgtatcgatc aactggatcg tgaacagttc 480
aaccocgatg tgattacttt tccgattatc gtccactttg ggatacgcgc tgcacagttg 540
agttatgcag gagaccacac gtacccaaaa ctgtggaaga gttatgtgaa acttcgccac 600
ctcctagcaa atagtcccaa agtcaaacaa actgacaaac agaagctggc acagagggag 660
gaagccctcc aaaaaatacg gcagaagaat acaatgagac gagaagtaac ggtggagcta 720
agtagccaag gattctggaa aactggcatc cgttctgatg tctgtcagca tgcaatgatg 780
ctacctgttc tgaccatca tatccgctac caccaatgcc taatgcattt ggacaagttg 840
ataggatata ctttccaaga tcgttgtctg ttgcagctgg ccatgactca tccaagtcac 900
catttaaat ttggaatgaa tcctgatcat gccaggaatt cattatctaa ctgtggaatt 960
cggcagccca aatacggaga cagaaaagtt catcacatgc acatgcggaa gaaagggatt 1020
aacacctga taaatatcat gtcacgcctt ggccaagatg acccaactcc ctcgaggatt 1080
aaccacaatg agcggttgga attcctgggt gatgctgttg ttgaatttct gaccagcgtc 1140
catttgtact atttgtttcc tagtctggaa gaaggaggat tagcaacctc tcggactgcc 1200
attgttcaga atcagcacct tgccatgcta gcaaagaaac ttgaactgga tcgatttatg 1260
ctgtatgctc acgggcctga cctttgtaga gaatcggacc ttcgacatgc aatggccaat 1320
tgttttgaag cgttaatagg agctgtttac ttggagggaa gcctggagga agccaagcag 1380
ttatttggac gcttgctctt taatgatccg gacctgcgog aagtctggct caattatcct 1440
ctccaccac tccaactaca agagccaaat actgatcgac aacttattga aacttctccg 1500
gttctacaaa aacttactga gtttgaagaa gcaattggag taatttttac tcatgttcga 1560
cttctggcaa gggcattcac attgagaact gtgggattta accatctgac cctaggccac 1620
aatcagagaa tggaattcct aggtgactcc ataatgcaac tggtagccac agagtactta 1680
ttcattcatt tcccagatca tcatgaagga cacttaactt tgttgcgaag ctctttggtg 1740
aataatagaa ctcaggccaa ggtagcggag gagctgggca tgcaggagta cgccataacc 1800
aacgacaaga ccaagaggcc tgtggcgctt cgcaccaaga ccttggcgga ccttttgga 1860
tcatttattg cagcgtgtga cattgataag gatttggaa atgttcatac tttcatgaat 1920
gtctgcttct ttccacgatt gaaagagttc attttgaacc aggattggaa tgaccccaaa 1980
tcccagcttc agcagtgttg cttgacactt aggacagaag gaaaagagcc agacattcct 2040
ctgtacaaga ctctgcagac agtgggcccc tcccatgccc gaacctacac tgtggctgtt 2100
tatttcaagg gagaaagaat aggctgtggg aaaggacca gtattcagca agcggaaatg 2160
ggagcagcaa tggatgcgct tgaaaaatat aattttcccc agatggcccc tcagaagcgg 2220
ttcatcgaac ggaagtacag acaagagttg aaagaaatga ggtgggaaag agagcatcaa 2280
gagagagagc cagatgagac tgaagacatc aagaaataaa ggagggcacg caagtgtgga 2340
gtatttactt gctcagtaac tgtgactgtt gtctattgag acctagccta gtcttcctgc 2400
agacaatgaa tgaagtgtgc tcattgaaat aaaatacaga gtcaaatcgc tattgttgtt 2460
ttaatgatct gtttttagct ggatggctct tattacaaag tattagattt ttcttctatt 2520
taacggaaaa cttgactttg gtgaatgtgc attacttctt tttattttgc tctttaaata 2580
ataaaattca agaagcat
2598

```

<210> 10949  
 <211> 769  
 <212> PRT  
 <213> Homo sapiens

<400> 10949  
 Met Phe Ala His Ala Pro Leu Thr Asn Ile Pro Leu Cys Lys Val Ile  
 1 5 10 15



Arg	Phe	Asn	Ile	Asp	Tyr	Thr	Ile	His	Phe	Ile	Glu	Glu	Met	Met	Pro
			20					25					30		
Glu	Asn	Phe	Cys	Val	Lys	Gly	Leu	Glu	Leu	Phe	Ser	Leu	Phe	Leu	Phe
		35					40					45			
Arg	Asp	Ile	Leu	Glu	Leu	Tyr	Asp	Trp	Asn	Leu	Lys	Gly	Pro	Leu	Phe
	50					55					60				
Glu	Asp	Ser	Pro	Pro	Cys	Cys	Pro	Arg	Phe	His	Phe	Met	Pro	Arg	Phe
65					70					75					80
Val	Arg	Phe	Leu	Pro	Asp	Gly	Gly	Lys	Glu	Val	Leu	Ser	Met	His	Gln
			85						90					95	
Ile	Leu	Leu	Tyr	Leu	Leu	Arg	Cys	Ser	Lys	Ala	Leu	Val	Pro	Glu	Glu
			100					105					110		
Glu	Ile	Ala	Asn	Met	Leu	Gln	Trp	Glu	Glu	Leu	Glu	Trp	Gln	Lys	Tyr
		115					120					125			
Ala	Glu	Glu	Cys	Lys	Gly	Met	Ile	Val	Thr	Asn	Pro	Gly	Thr	Lys	Pro
	130					135					140				
Ser	Ser	Val	Arg	Ile	Asp	Gln	Leu	Asp	Arg	Glu	Gln	Phe	Asn	Pro	Asp
145					150					155					160
Val	Ile	Thr	Phe	Pro	Ile	Ile	Val	His	Phe	Gly	Ile	Arg	Pro	Ala	Gln
			165						170					175	
Leu	Ser	Tyr	Ala	Gly	Asp	Pro	Gln	Tyr	Gln	Lys	Leu	Trp	Lys	Ser	Tyr
			180					185					190		
Val	Lys	Leu	Arg	His	Leu	Leu	Ala	Asn	Ser	Pro	Lys	Val	Lys	Gln	Thr
		195					200					205			
Asp	Lys	Gln	Lys	Leu	Ala	Gln	Arg	Glu	Glu	Ala	Leu	Gln	Lys	Ile	Arg
	210					215					220				
Gln	Lys	Asn	Thr	Met	Arg	Arg	Glu	Val	Thr	Val	Glu	Leu	Ser	Ser	Gln
225					230					235					240
Gly	Phe	Trp	Lys	Thr	Gly	Ile	Arg	Ser	Asp	Val	Cys	Gln	His	Ala	Met
			245						250					255	
Met	Leu	Pro	Val	Leu	Thr	His	His	Ile	Arg	Tyr	His	Gln	Cys	Leu	Met
			260					265					270		
His	Leu	Asp	Lys	Leu	Ile	Gly	Tyr	Thr	Phe	Gln	Asp	Arg	Cys	Leu	Leu
		275					280					285			
Gln	Leu	Ala	Met	Thr	His	Pro	Ser	His	His	Leu	Asn	Phe	Gly	Met	Asn
	290					295					300				
Pro	Asp	His	Ala	Arg	Asn	Ser	Leu	Ser	Asn	Cys	Gly	Ile	Arg	Gln	Pro
305					310					315					320
Lys	Tyr	Gly	Asp	Arg	Lys	Val	His	His	Met	His	Met	Arg	Lys	Lys	Gly
			325						330					335	
Ile	Asn	Thr	Leu	Ile	Asn	Ile	Met	Ser	Arg	Leu	Gly	Gln	Asp	Asp	Pro
			340					345					350		
Thr	Pro	Ser	Arg	Ile	Asn	His	Asn	Glu	Arg	Leu	Glu	Phe	Leu	Gly	Asp
		355					360					365			
Ala	Val	Val	Glu	Phe	Leu	Thr	Ser	Val	His	Leu	Tyr	Tyr	Leu	Phe	Pro
	370					375					380				
Ser	Leu	Glu	Glu	Gly	Gly	Leu	Ala	Thr	Tyr	Arg	Thr	Ala	Ile	Val	Gln
385					390					395					400

09629469.072300

Asn	Gln	His	Leu	Ala	Met	Leu	Ala	Lys	Lys	Leu	Glu	Leu	Asp	Arg	Phe	
				405					410					415		
Met	Leu	Tyr	Ala	His	Gly	Pro	Asp	Leu	Cys	Arg	Glu	Ser	Asp	Leu	Arg	
			420					425					430			
His	Ala	Met	Ala	Asn	Cys	Phe	Glu	Ala	Leu	Ile	Gly	Ala	Val	Tyr	Leu	
		435					440					445				
Glu	Gly	Ser	Leu	Glu	Glu	Ala	Lys	Gln	Leu	Phe	Gly	Arg	Leu	Leu	Phe	
	450					455					460					
Asn	Asp	Pro	Asp	Leu	Arg	Glu	Val	Trp	Leu	Asn	Tyr	Pro	Leu	His	Pro	
465					470					475					480	
Leu	Gln	Leu	Gln	Glu	Pro	Asn	Thr	Asp	Arg	Gln	Leu	Ile	Glu	Thr	Ser	
			485						490					495		
Pro	Val	Leu	Gln	Lys	Leu	Thr	Glu	Phe	Glu	Glu	Ala	Ile	Gly	Val	Ile	
			500					505					510			
Phe	Thr	His	Val	Arg	Leu	Leu	Ala	Arg	Ala	Phe	Thr	Leu	Arg	Thr	Val	
		515					520					525				
Gly	Phe	Asn	His	Leu	Thr	Leu	Gly	His	Asn	Gln	Arg	Met	Glu	Phe	Leu	
	530					535					540					
Gly	Asp	Ser	Ile	Met	Gln	Leu	Val	Ala	Thr	Glu	Tyr	Leu	Phe	Ile	His	
545					550					555					560	
Phe	Pro	Asp	His	His	Glu	Gly	His	Leu	Thr	Leu	Leu	Arg	Ser	Ser	Leu	
			565						570					575		
Val	Asn	Asn	Arg	Thr	Gln	Ala	Lys	Val	Ala	Glu	Glu	Leu	Gly	Met	Gln	
			580					585					590			
Glu	Tyr	Ala	Ile	Thr	Asn	Asp	Lys	Thr	Lys	Arg	Pro	Val	Ala	Leu	Arg	
		595					600					605				
Thr	Lys	Thr	Leu	Ala	Asp	Leu	Leu	Glu	Ser	Phe	Ile	Ala	Ala	Leu	Tyr	
	610					615					620					
Ile	Asp	Lys	Asp	Leu	Glu	Tyr	Val	His	Thr	Phe	Met	Asn	Val	Cys	Phe	
625					630					635					640	
Phe	Pro	Arg	Leu	Lys	Glu	Phe	Ile	Leu	Asn	Gln	Asp	Trp	Asn	Asp	Pro	
			645						650					655		
Lys	Ser	Gln	Leu	Gln	Gln	Cys	Cys	Leu	Thr	Leu	Arg	Thr	Glu	Gly	Lys	
			660					665					670			
Glu	Pro	Asp	Ile	Pro	Leu	Tyr	Lys	Thr	Leu	Gln	Thr	Val	Gly	Pro	Ser	
		675					680					685				
His	Ala	Arg	Thr	Tyr	Thr	Val	Ala	Val	Tyr	Phe	Lys	Gly	Glu	Arg	Ile	
	690					695					700					
Gly	Cys	Gly	Lys	Gly	Pro	Ser	Ile	Gln	Gln	Ala	Glu	Met	Gly	Ala	Ala	
705					710					715					720	
Met	Asp	Ala	Leu	Glu	Lys	Tyr	Asn	Phe	Pro	Gln	Met	Ala	His	Gln	Lys	
			725						730					735		
Arg	Phe	Ile	Glu	Arg	Lys	Tyr	Arg	Gln	Glu	Leu	Lys	Glu	Met	Arg	Trp	
			740					745					750			
Glu	Arg	Glu	His	Gln	Glu	Arg	Glu	Pro	Asp	Glu	Thr	Glu	Asp	Ile	Lys	
		755					760					765				
Lys																

09629469.072800

<210> 10950  
<211> 2369  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (354).. (2087)

<400> 10950

```
attgatcgct ttctgcaacc attcagactg atctcgggct cctatttcat ttacattgtg 60
tgcacaccaa gtaaccagtg ggaaaaacttt agagggtact taaaccccag aaaatttctga 120
aaccgggctc ttgagccgct atcctcgggc ctgctcccac cctgtggagt gcactttcgt 180
tttcaataaa tctctgcttt tgttgcttca ttctttcctt gctttgtttg tgtgtttgtc 240
cagttctttg ttcaacacgc caagaacctg gacactcttc actggtaaca tattttggca 300
agccaaccag gagaaaagaa tttctgcttg gacactgcat agctgctggg aaaatgaaca 360
tcagtgttga tttggaaacg aattatgccg agttggttct agatgtggga agagtcactc 420
ttggagagaa cagtaggaaa aaaatgaagg attgtaaact gagaaaaaag cagaatgaaa 480
gtgtctcacg agctatgtgt gctctgctca attctggagg gggagtgatc aaggctgaaa 540
ttgagaatga agactatagt tatacaaaag atggaatagg actagatttg gaaaattctt 600
ttagtaacat tctgttattt gttcctgagt acttagactt catgcagaat ggtaactact 660
ttctgatttt tgtgaagtca tggagcttga acacctctgg tctgcggatt accaccttga 720
gctccaattt gtacaaaaga gatataacat ctgcaaaagt catgaatgcc actgctgcac 780
tggagttcct caaagacatg aaaaagacta gagggagatt gtatttaaga ccagaattgc 840
tggcaaagag gccctgtgtt gatatacaag aagaaaataa catgaaggcc ttggccgggg 900
ttttttttga tagaacagaa cttgatcgga aagaaaaatt gacctttact gaatccacac 960
atgttgaaat taaaaacttc tcgacagaaa agttgttaca acgaattaaa gagattctcc 1020
ctcaatatgt ttctgcattt gcaaatactg atggaggata tttgttcatt ggtttaaatg 1080
aagataaaga aataattggc tttaaagcag agatgagtga cctcgatgac ttagaaagag 1140
aaatcgaaaa gtccattagg aagatgcctg tgcatcactt ctgtatggag aagaagaaga 1200
taaattattc atgcaaattc cttgggggat atgataaagg aagtctttgt ggatatgtct 1260
gtgcaactcag agtggagcgc ttctgctgtg cagtgtttgc taaagagcct gattcctggc 1320
atgtgaaaga taaccgtgtg atgcagttga ccaggaagga atggatccag ttcattggtg 1380
aggctgaacc aaaattttcc agttcatatg aagagggtgat ctctcaaata aatgcgtcat 1440
tacctgctcc ccacagttgg cctcttttgg aatggcaacg gcagagacat cactgtccag 1500
ggctatcagg aaggataacg tatactccag aaaacctttg cagaaaactg ttcttacaac 1560
atgaaggact taagcaatta atatgtgaag aaatggactc tgtcagaaag ggctcactga 1620
tcttctctag gagctggtct gtggatctgg gcttgcaaga gaaccacaaa gtctctgtg 1680
atgctottct gatttccag gacagtcctc cagtctata caccttcac atggtacagg 1740
atgaggagtt taaaggctat tctacacaaa ctgccctaac cttaaagcag aagctggcaa 1800
aaattgggtg ttacactaaa aaagtgtgtg tcatgacaaa gatctttctac ttgagccctg 1860
aaggcatgac aagctgccag tatgatttaa ggtcgcaagt aatttaccct gaatcctact 1920
attttacaag aaggaaatac ttgctgaaag ccctttttta agccttaaag agactcaagt 1980
ctctgagaga ccagttttcc tttgcagaaa atctatacca gataatcggg atagattgct 2040
ttcagaagaa tgataaaaag atgtttaaat ctgtgcgaag gctcacctga tggaaaatgg 2100
actgggctac tgagatattt ttcattatat atttgataac atttctaat tctgtgaaaa 2160
```

09629469.07300

tattttctttg aaaactttgc aagttaagca acttgatgtg atgttggata attgggtttt 2220  
gtctattttc actttccct aaataatctt cacagatatt gtttgaggga tattaggaaa 2280  
attaatttgt taactogtct gtgcacagta ttatttactc tgtctgtagt tcctgaataa 2340  
attttcttcc atgcttgaaa aaaaaaaat 2369

<210> 10951  
<211> 578  
<212> PRT  
<213> Homo sapiens

<400> 10951

Met	Asn	Ile	Ser	Val	Asp	Leu	Glu	Thr	Asn	Tyr	Ala	Glu	Leu	Val	Leu
1				5					10					15	
Asp	Val	Gly	Arg	Val	Thr	Leu	Gly	Glu	Asn	Ser	Arg	Lys	Lys	Met	Lys
			20					25					30		
Asp	Cys	Lys	Leu	Arg	Lys	Lys	Gln	Asn	Glu	Ser	Val	Ser	Arg	Ala	Met
		35					40					45			
Cys	Ala	Leu	Leu	Asn	Ser	Gly	Gly	Gly	Val	Ile	Lys	Ala	Glu	Ile	Glu
	50					55					60				
Asn	Glu	Asp	Tyr	Ser	Tyr	Thr	Lys	Asp	Gly	Ile	Gly	Leu	Asp	Leu	Glu
65					70					75				80	
Asn	Ser	Phe	Ser	Asn	Ile	Leu	Leu	Phe	Val	Pro	Glu	Tyr	Leu	Asp	Phe
				85					90					95	
Met	Gln	Asn	Gly	Asn	Tyr	Phe	Leu	Ile	Phe	Val	Lys	Ser	Trp	Ser	Leu
			100					105					110		
Asn	Thr	Ser	Gly	Leu	Arg	Ile	Thr	Thr	Leu	Ser	Ser	Asn	Leu	Tyr	Lys
		115					120					125			
Arg	Asp	Ile	Thr	Ser	Ala	Lys	Val	Met	Asn	Ala	Thr	Ala	Ala	Leu	Glu
	130					135					140				
Phe	Leu	Lys	Asp	Met	Lys	Lys	Thr	Arg	Gly	Arg	Leu	Tyr	Leu	Arg	Pro
145					150					155				160	
Glu	Leu	Leu	Ala	Lys	Arg	Pro	Cys	Val	Asp	Ile	Gln	Glu	Glu	Asn	Asn
				165					170					175	
Met	Lys	Ala	Leu	Ala	Gly	Val	Phe	Phe	Asp	Arg	Thr	Glu	Leu	Asp	Arg
			180					185					190		
Lys	Glu	Lys	Leu	Thr	Phe	Thr	Glu	Ser	Thr	His	Val	Glu	Ile	Lys	Asn
		195					200					205			
Phe	Ser	Thr	Glu	Lys	Leu	Leu	Gln	Arg	Ile	Lys	Glu	Ile	Leu	Pro	Gln
	210					215					220				
Tyr	Val	Ser	Ala	Phe	Ala	Asn	Thr	Asp	Gly	Gly	Tyr	Leu	Phe	Ile	Gly
225					230					235				240	
Leu	Asn	Glu	Asp	Lys	Glu	Ile	Ile	Gly	Phe	Lys	Ala	Glu	Met	Ser	Asp
				245				250						255	
Leu	Asp	Asp	Leu	Glu	Arg	Glu	Ile	Glu	Lys	Ser	Ile	Arg	Lys	Met	Pro
		260					265					270			
Val	His	His	Phe	Cys	Met	Glu	Lys	Lys	Ile	Asn	Tyr	Ser	Cys	Lys	
		275					280					285			

09629469.072800

-4414/13211-

```

Phe Leu Gly Val Tyr Asp Lys Gly Ser Leu Cys Gly Tyr Val Cys Ala
 290                295                300
Leu Arg Val Glu Arg Phe Cys Cys Ala Val Phe Ala Lys Glu Pro Asp
305                310                315                320
Ser Trp His Val Lys Asp Asn Arg Val Met Gln Leu Thr Arg Lys Glu
                325                330                335
Trp Ile Gln Phe Met Val Glu Ala Glu Pro Lys Phe Ser Ser Ser Tyr
                340                345                350
Glu Glu Val Ile Ser Gln Ile Asn Ala Ser Leu Pro Ala Pro His Ser
                355                360                365
Trp Pro Leu Leu Glu Trp Gln Arg Gln Arg His His Cys Pro Gly Leu
                370                375                380
Ser Gly Arg Ile Thr Tyr Thr Pro Glu Asn Leu Cys Arg Lys Leu Phe
385                390                395                400
Leu Gln His Glu Gly Leu Lys Gln Leu Ile Cys Glu Glu Met Asp Ser
                405                410                415
Val Arg Lys Gly Ser Leu Ile Phe Ser Arg Ser Trp Ser Val Asp Leu
                420                425                430
Gly Leu Gln Glu Asn His Lys Val Leu Cys Asp Ala Leu Leu Ile Ser
                435                440                445
Gln Asp Ser Pro Pro Val Leu Tyr Thr Phe His Met Val Gln Asp Glu
                450                455                460
Glu Phe Lys Gly Tyr Ser Thr Gln Thr Ala Leu Thr Leu Lys Gln Lys
465                470                475                480
Leu Ala Lys Ile Gly Gly Tyr Thr Lys Lys Val Cys Val Met Thr Lys
                485                490                495
Ile Phe Tyr Leu Ser Pro Glu Gly Met Thr Ser Cys Gln Tyr Asp Leu
                500                505                510
Arg Ser Gln Val Ile Tyr Pro Glu Ser Tyr Tyr Phe Thr Arg Arg Lys
                515                520                525
Tyr Leu Leu Lys Ala Leu Phe Lys Ala Leu Lys Arg Leu Lys Ser Leu
                530                535                540
Arg Asp Gln Phe Ser Phe Ala Glu Asn Leu Tyr Gln Ile Ile Gly Ile
545                550                555                560
Asp Cys Phe Gln Lys Asn Asp Lys Lys Met Phe Lys Ser Cys Arg Arg
                565                570                575
Leu Thr

```

<210> 10952  
 <211> 3052  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (20).. (1801)

09629469.072800

<400> 10952

ggatgaaaac	atccccagca	tgagatgtg	tgaccagaga	cacaatatca	ccatgtgccc	60
gctttgcgac	aagacctgca	gctactggaa	gatgagctca	gcctgcgcca	cggcccgcgc	120
cagccacctc	ttcgacaacc	cgcgccaggt	cttcttctct	gtcttcatgg	ccctctgggc	180
tgccaccttc	atggagcact	ggaagcggaa	acagatgcga	ctcaactacc	gctgggacct	240
cacgggcttt	gaagaggaag	aggaggctgt	caaggatcat	cctagagctg	aatacgaagc	300
cagagtcttg	gagaagtctc	tgaagaaaga	gtccagaaac	aaagagactg	acaaagtga	360
gctgacatgg	agagatcggt	tcccagccta	cctcactaac	ttggtctcca	tcatcttcat	420
gattgcagtg	acgtttgcca	tcgtcctcgg	cgtcatcatc	tacaggatct	ccatggccgc	480
cgccttggcc	atgaactcct	ccccctcgt	gcgggtccaa	atccgggtca	cagtacagc	540
caccgcggtc	atcatcaacc	tagtgggtcat	catcctcctg	gacgagggtg	atggctgcat	600
agcccgatgg	ctcaccaaga	tcgagggtccc	aaagacggag	aaaagctttg	aggagaggct	660
gatcttcaag	gctttcctgc	tgaagtttgt	gaattcctac	acccccatct	tttacgtggc	720
gttcttcaaa	ggccggtttg	ttggacgccc	gggcgactac	gtgtacattt	tccgttccct	780
ccgaatggaa	gagtgtgcgc	cagggggctg	cctgatggag	ctatgcatcc	agctcagcat	840
catcatgctg	gggaaacagc	tgatccagaa	caacctgttc	gagatcggca	tcccgaagat	900
gaagaagctc	atccgctacc	tgaagctgaa	gcagcagagc	ccccctgacc	acgaggagtg	960
tgtgaagagg	aaacagcggg	acgagggtgga	ttacaacctg	gagcccttcg	cgggcctcac	1020
cccagagtac	atggaaatga	tcatccagtt	tggttctcgt	accctgtttg	tcgcctcctt	1080
ccccctggcc	ccactgtttg	cgctgctgaa	caacatcatc	gagatccgcc	tggacgccaa	1140
aaagtttgtc	actgagctcc	gaaggccggg	agctgtcaga	gccaaagaca	tcggaatctg	1200
gtacaatatc	ctcagaggca	ttgggaagct	tgctgtcatc	atcaatgcct	tcgtgatctc	1260
cttcacgtct	gacttcatcc	cgcgcctggg	gtacctctac	atgtacagta	agaacgggac	1320
catgcacggc	ttcgtcaacc	acaccctctc	ctccttcaac	gtcagtgaat	tccagaacgg	1380
cacggccccc	aatgaccccc	tggacctggg	ctacgagggt	cagatctgca	ggtataaaga	1440
ctaccgagag	ccgccgtggg	cggaaaacaa	gtacgacatc	tccaaggact	tctgggccgt	1500
cctggcagcc	cggctggcgt	ttgtcatcgt	cttcagaaac	ctgggtcatg	tcatgagcga	1560
ctttgtggac	tgggtcatcc	cggacatccc	caaggacatc	agccagcaga	tccacaagga	1620
gaagggtgct	atggtggagc	tggtcatgcg	ggaggagcaa	gacaagcagc	agctgctgga	1680
aacctggatg	gagaaggagc	ggcagaagga	cgagccgccg	tgcaaccacc	acaacaccaa	1740
agcctgcccc	gacagcctcg	gcagcccagc	ccccagccat	gcctaccacg	ggggcgtcct	1800
gtagctatgc	cagcggggct	gggcaggcca	gccgggcata	ctgaccgatg	ggcaccctct	1860
cccagggcag	gcggcttccc	gctcccacca	gggcccggtg	ggtcctgggt	tttctgcaaa	1920
catggaggac	cactttctga	taggacattt	tcctttcttc	tttctgtttt	ctttcccttg	1980
tttttgcaca	aagccattat	gcagggaata	ttttttaatc	tgtagtattc	aagatgaatc	2040
aaaatgatgg	ctggtaatac	ggcaataagg	tagcaaaggc	aggtgctttg	cagaaagaat	2100
gcttggaaac	ttgagtctcc	ctagagggtga	aaagttagca	gaggccctta	gaaaccctcc	2160
totgaatcct	cctaattcct	taagatagat	gcaaaatggg	aagccgaggc	atcgcgcaaa	2220
agctgggtgcg	atgcttcagg	gaaaatggaa	aaccacgcga	agaataatga	ttgattccgg	2280
ttccaaaagg	gtcacctac	ctgtttcaga	aaagttagac	tttccatcgc	cttttccctc	2340
catcagttga	gtggctgaga	gagaagtgcc	tcatccctga	gccacacagg	gggcgtggga	2400
gcatcccagt	tatccctgga	aagctagaag	gggacagagg	tgtccctgat	taagcaggaa	2460
acagcaccct	tggcgtcccc	agcaggctcc	ccactgtcag	ccacacacct	gcccccatca	2520
caccaagccg	acctcagagt	tgttcatctt	ccttatggga	caaaaccggg	tgaccagaaa	2580
atgggcagag	agagatgacc	tcggaagcat	ttccacagat	ggtgtcaggg	tttcaagaag	2640
tcttagggct	tccaggggtc	ccttggaagc	tttagaatat	ttatgggttt	ttttttcaaa	2700
tatcaattat	atggtagatt	gaggattttt	tttctgtagc	tcaaagggtg	agggagtta	2760

ttagttaacc aaatatcggt gagaggaatt taaaatactg ttactaccaa agatttttat 2820  
 taataaaggc ttatatatttg gtaacacttc totatatattt tactcacagg aatgtcactg 2880  
 ttggacaatt attttaaaag tgtataaaaac caagtctcat aaatgatatg agtgatctaa 2940  
 atttgcagca atgataactaa acaactctct gaaatttctc aagcaccaag agaaacatca 3000  
 ttttagcaaa ggccaggagg aaaaatagaa ataaatttgt ottgaagatc tc 3052

<210> 10953  
 <211> 594  
 <212> PRT  
 <213> Homo sapiens

<400> 10953  
 Met Glu Met Cys Asp Gln Arg His Asn Ile Thr Met Cys Pro Leu Cys  
 1 5 10 15  
 Asp Lys Thr Cys Ser Tyr Trp Lys Met Ser Ser Ala Cys Ala Thr Ala  
 20 25 30  
 Arg Ala Ser His Leu Phe Asp Asn Pro Ala Thr Val Phe Phe Ser Val  
 35 40 45  
 Phe Met Ala Leu Trp Ala Ala Thr Phe Met Glu His Trp Lys Arg Lys  
 50 55 60  
 Gln Met Arg Leu Asn Tyr Arg Trp Asp Leu Thr Gly Phe Glu Glu Glu  
 65 70 75 80  
 Glu Glu Ala Val Lys Asp His Pro Arg Ala Glu Tyr Glu Ala Arg Val  
 85 90 95  
 Leu Glu Lys Ser Leu Lys Lys Glu Ser Arg Asn Lys Glu Thr Asp Lys  
 100 105 110  
 Val Lys Leu Thr Trp Arg Asp Arg Phe Pro Ala Tyr Leu Thr Asn Leu  
 115 120 125  
 Val Ser Ile Ile Phe Met Ile Ala Val Thr Phe Ala Ile Val Leu Gly  
 130 135 140  
 Val Ile Ile Tyr Arg Ile Ser Met Ala Ala Ala Leu Ala Met Asn Ser  
 145 150 155 160  
 Ser Pro Ser Val Arg Ser Asn Ile Arg Val Thr Val Thr Ala Thr Ala  
 165 170 175  
 Val Ile Ile Asn Leu Val Val Ile Ile Leu Leu Asp Glu Val Tyr Gly  
 180 185 190  
 Cys Ile Ala Arg Trp Leu Thr Lys Ile Glu Val Pro Lys Thr Glu Lys  
 195 200 205  
 Ser Phe Glu Glu Arg Leu Ile Phe Lys Ala Phe Leu Leu Lys Phe Val  
 210 215 220  
 Asn Ser Tyr Thr Pro Ile Phe Tyr Val Ala Phe Phe Lys Gly Arg Phe  
 225 230 235 240  
 Val Gly Arg Pro Gly Asp Tyr Val Tyr Ile Phe Arg Ser Phe Arg Met  
 245 250 255  
 Glu Glu Cys Ala Pro Gly Gly Cys Leu Met Glu Leu Cys Ile Gln Leu  
 260 265 270  
 Ser Ile Ile Met Leu Gly Lys Gln Leu Ile Gln Asn Asn Leu Phe Glu

09629469.072800

-4417/13211-

275 280 285  
Ile Gly Ile Pro Lys Met Lys Lys Leu Ile Arg Tyr Leu Lys Leu Lys  
290 295 300  
Gln Gln Ser Pro Pro Asp His Glu Glu Cys Val Lys Arg Lys Gln Arg  
305 310 315 320  
Tyr Glu Val Asp Tyr Asn Leu Glu Pro Phe Ala Gly Leu Thr Pro Glu  
325 330 335  
Tyr Met Glu Met Ile Ile Gln Phe Gly Phe Val Thr Leu Phe Val Ala  
340 345 350  
Ser Phe Pro Leu Ala Pro Leu Phe Ala Leu Leu Asn Asn Ile Ile Glu  
355 360 365  
Ile Arg Leu Asp Ala Lys Lys Phe Val Thr Glu Leu Arg Arg Pro Val  
370 375 380  
Ala Val Arg Ala Lys Asp Ile Gly Ile Trp Tyr Asn Ile Leu Arg Gly  
385 390 395 400  
Ile Gly Lys Leu Ala Val Ile Ile Asn Ala Phe Val Ile Ser Phe Thr  
405 410 415  
Ser Asp Phe Ile Pro Arg Leu Val Tyr Leu Tyr Met Tyr Ser Lys Asn  
420 425 430  
Gly Thr Met His Gly Phe Val Asn His Thr Leu Ser Ser Phe Asn Val  
435 440 445  
Ser Asp Phe Gln Asn Gly Thr Ala Pro Asn Asp Pro Leu Asp Leu Gly  
450 455 460  
Tyr Glu Val Gln Ile Cys Arg Tyr Lys Asp Tyr Arg Glu Pro Pro Trp  
465 470 475 480  
Ser Glu Asn Lys Tyr Asp Ile Ser Lys Asp Phe Trp Ala Val Leu Ala  
485 490 495  
Ala Arg Leu Ala Phe Val Ile Val Phe Gln Asn Leu Val Met Phe Met  
500 505 510  
Ser Asp Phe Val Asp Trp Val Ile Pro Asp Ile Pro Lys Asp Ile Ser  
515 520 525  
Gln Gln Ile His Lys Glu Lys Val Leu Met Val Glu Leu Phe Met Arg  
530 535 540  
Glu Glu Gln Asp Lys Gln Gln Leu Leu Glu Thr Trp Met Glu Lys Glu  
545 550 555 560  
Arg Gln Lys Asp Glu Pro Pro Cys Asn His His Asn Thr Lys Ala Cys  
565 570 575  
Pro Asp Ser Leu Gly Ser Pro Ala Pro Ser His Ala Tyr His Gly Gly  
580 585 590  
Val Leu

<210> 10954

<211> 1741

<212> DNA

<213> Homo sapiens

09629469.073800



<220>  
<221> CDS  
<222> (100).. (645)

<400> 10954

```

ggatatctgt atgcagttgg tgggcgaaat gcagcaggtg aactgcccac agtagaatgt 60
tacaatccaa gaacaaatga atggacctat gttgccaaaa tgagttagcc ccactatggc 120
catgctggaa ctgtgtatgg aggagtgatg tatatttcag gaggaattac tcatgatact 180
ttccaaaagg agctcatgtg ctttgaccct gatactgaca aatggatcca gaaggcgcca 240
atgaccactg tcagaggtct gcattgcatg tgtacagtgg gagaaaggct ctatgtcatt 300
ggtggcaatc acttcagagg aacaagtgat tatgatgatg tcctaagctg tgaatactat 360
tcacctatcc ttgaccagtg gaccccaatt gctgccatgt taagagggca gagtgatgtt 420
ggggtcgcctg tcttcgaaaa taaaatctat gtgggtgggg ggtattcttg gaataatcgt 480
tgtatggtag agatagtgcg gaaatatgat ccagataaag atgaatggca taggggtttt 540
gatctgccag aatcccttgg tggcattcgt gcttgccacac tcacagtttt tccaccagaa 600
gaaaccacac catcaccttc tagagagtcc cctctttctg caccttaaga tcatctctac 660
aactaagatg ctgtagtctt atctttgcaa tgtgtcataa attctcttct ttttccccct 720
taagtagtat atatgttagg attaccctct ggtaattgat acagatattg gaaaaaagac 780
aacattgatg ttatttgtgc tctttgtttg gcctagaatg tttataaagt ggtaacacaa 840
ccattctgga aatgtatccc atagaagctg atgtttaaca tatgaaaaaa aagtattgtc 900
tataaaatgt ttcttcagta ctttttaaat gctgtgtatt ggggtgtaagg tatttgtcat 960
cttacattag taaacccaat aagccaagtt gaagggtggat tatagtaa at gtacaactgt 1020
gctcactagg cttcaagtaa aaagttttcc tttcatcttt gactgtaaga tgtcaaaggg 1080
aggcagcctg cttgaacagg aaacaatata caaaagggtg ccaactcgca tgagctacct 1140
ccctcttttc ataaagtatt tttgacatat ctgtcaaccc acttgactgt gtgggtgcat 1200
tgagaacaca aagtttccta gacacacagg agaagtagct taaattcact aatattaatt 1260
taaaaagcag catgaacct ctacttataa acaagggttt ggtgttttta aagtgtgtat 1320
acatacatat acatacacac atgcacatat gtcaaataa atttttttta aaattgagt 1380
gcacatcaaa gaaatgtgaa attaaaaaga attcttccaa aaagcagctt ccattaaaa 1440
gggaattcag tatgcacata ctgaatgcat atatgtagaa ccatacagaa tttaggtgga 1500
taagggttag aaattttgag caacaaaatt tgtcacttga ccagatttta tottcaaaaa 1560
ctgtattcta ctcttctcc tttgctgttg aggttaactg catattatat gtattctgta 1620
tactcagttc ataagttat ttagcacaaa gtatagcagc ttcacctgga gagctgcttt 1680
tgctcagtaa attcaacttc catgttttat ctttttttgt tcaataaaaa catttaatgt 1740
c

```

<210> 10955  
<211> 182  
<212> PRT  
<213> Homo sapiens

<400> 10955

```

Met Ser Glu Pro His Tyr Gly His Ala Gly Thr Val Tyr Gly Gly Val
  1           5           10           15
Met Tyr Ile Ser Gly Gly Ile Thr His Asp Thr Phe Gln Lys Glu Leu
          20          25          30
Met Cys Phe Asp Pro Asp Thr Asp Lys Trp Ile Gln Lys Ala Pro Met

```

<210> 10956  
<211> 2486  
<212> DNA  
<213> Homo sapiens

tgacttccta	ttaggtttggt	gaaccaagtc	acaatctttg	ttaggttttag	gtgataggtt	60
gtaatgactg	agtcactcag	tactgggctg	tcttgtgtgt	cactgccatt	ctgtgtgctc	120
atggtggttg	gctgggtgagg	cccagctgag	ggcagggttg	gtcggccagg	actggaaaca	180
aagagagaat	ggtgggtgttg	gggtgtacat	ggcttgccctc	ggtagtggtc	cacttttgaa	240
ttaggccagg	atacttttcta	tttgttttgtt	cacttggttt	gagggaaatt	aagattttact	300
gtgttttttag	atattcttct	tagtctagt	ccatgaaatc	aaacagatct	gggttcaaac	360
tgtggccctg	ccatgtacta	gtttatgtga	tcttggacag	gttattcaca	ctcgcagatt	420
gttttttctg	aatcaaattg	ccacaggaat	ggcaaaatat	cagagaatat	gtcgaaatgg	480
aaggaaatcc	tgggattatc	tgatctgtag	actcttcccta	ttaaattaaa	cattaaatgc	540
ctgaaatgtt	ataagacgtt	attaaatatc	tgaaacgaaa	tctcagtatg	aaaagcagat	600
atgttaggtg	gatgcctcag	ttgaattcag	tcttcttatt	gggtaagatt	agtcctttgtt	660
cacagaacta	ctttaccacc	ttcactgagt	cccatggttc	actgcagctc	ggaatgaaat	720
ctcctgattt	ttcttcatgt	ataaggaaac	tgaggctctg	tatgccaagc	cactttcccc	780
aaagggtcaa	taggaagata	gtggcagtg	cagattggag	tcagtacat	gttcctcata	840
caacaccaca	aagaagtcaa	cttggttagc	aacccaaact	ccgactgcat	ttttttctta	900
gattccattg	tgccaatgca	taacctttgt	attctttcaa	tttttaaattg	gcactctaga	960
agaaaaaaaag	atatctggga	aagtttgctg	ttaagaatat	tttctccttc	aagattcctc	1020
atttcaagtt	ctaccataga	ctcagttcat	cacctgtcaa	aaaaatgaca	tgaaatctca	1080
acattctccc	taaaatacag	agacctgtga	catcataatc	ctgaagcctg	agagactaag	1140
taggaagctg	aaccatatga	cataaactgt	aaggaccaga	gtagaggagg	ggaagtgaag	1200
aggaaaaagag	gaaaggacat	ccacatctct	ttggaccttt	ggaccgatca	gtctaaacct	1260

tatTTTTgtc	gttgtttgttt	tttgggtacat	gtcctgggttg	tttgttccct	ttgttcagtt	1320
cattttgcca	agtgttttaca	gaacacccat	gctgtgctag	tatcggttat	cacctctgaa	1380
caaatagaat	aatgttttgga	gtgtgactta	caccttgaag	tccacttcct	tttagagata	1440
ctatctcata	ttctgtaaat	ttaagctagg	aataacotca	caccagttac	tcgggtgtttg	1500
aatctggaga	aggaatagaa	ggcattatct	gctgggaacg	ottcaatatt	gaaatgttct	1560
ttcccgaagc	tacttctttt	tccctctcaa	gtcacatatt	actgaccac	agcaaaacc	1620
gagattccaa	cagacaatcc	aatctgaagc	aaagtttctt	attcagatgt	tggacaggta	1680
ctaattcagc	acctacttgt	gtgagatact	cttccagggt	ttggcataga	gtggtgacca	1740
ggaaagatca	agaccaagc	actctgttgt	gcttccatgc	tcattggggg	aagagaaaat	1800
aataagtaaa	tccattagaa	agattatgat	ttcaactagt	cataaatatg	atgaaggaaa	1860
tatacatgga	aatgtaatat	taatcaaggc	atgggtattg	catattatga	ttgatcagga	1920
atcagtttct	cctaggaggt	gacattttaa	ctcagacctt	taggagatct	caactctcag	1980
tatcctcaga	gtcaagttga	gggaccttat	aagactccaa	cagaagggaac	cacacagttt	2040
catgctgcaa	gggcaaggct	actctatttt	taattgatgg	ctagacttca	ttaagactga	2100
aatgaataac	agtgaagaaa	ggcggggcag	ctactagaga	cagaagagtc	attgtgattt	2160
agttgttttg	tgaattgctc	atactttcaa	gggtcatcgg	tagcataact	gcaccttggt	2220
gcttgagaaa	agcagagcgc	agcagctggg	ccagcccagg	actctctgtg	cctggagctc	2280
ctggtaaatg	acctgccagc	gtgtgaactg	acgtgcccag	cgctcccacg	gtgggaagct	2340
gtttactctc	tcccgggagg	acacagggtt	agacatagtt	gaatctataa	tcattatcaa	2400
ccagatcaac	acgttctaac	tgacttgctt	gtgtcgtttt	tttccccaac	agtagttcaa	2460
tggcctgtga	atgttttgc	tccagt				2486

<210> 10957

<211> 2114

<212> DNA

<213> Homo sapiens

<400> 10957

aacaacttcc	gctcgggaag	tttgtaaaag	tctggtctac	cggcgcggcg	tagtgatgc	60
agcatcctag	tggaggacgc	ccctgtgatc	tgccctcctt	ggcactgtgc	ttccccagag	120
gggtggcctc	gctgttccca	tggacatggc	ccaggagcca	gtgaccttca	gggacgtggc	180
catctacttc	tcaagggagg	agtgggcgtg	tctggaaccc	agccagaggg	ccctctaccg	240
ggacgtgatg	ctggacaact	tcagcagtgt	ggctgctctg	ggtgagcacg	ggctgagcgc	300
agcgtgagca	cagggatttt	gcagccccag	accagacctc	gtctctcgcc	tggaacagtg	360
ggaggagccg	tgggttgaag	accgggagag	acctgagttc	caggcagtg	agaggggacc	420
ccggccaggg	gcaaggaagt	ctgcagaccc	caagagacct	tgtgatcatc	cagcttgggc	480
tcacaagaaa	accacagtgc	ggcgagaaa	agccagggaa	ggaagcagct	ttaggaagg	540
cttcaggctg	gacacggatg	acgggcagct	tcccagagct	gctccagaaa	ggacagacgc	600
caagcccacg	gctttcccg	gtcaggtgct	cacgcagcgt	tgtgggcggc	ggccggggccg	660
cagagagcgc	cggaagcagc	gcgcagtaga	gctgtcgttc	atctgcggca	cgtgcgggaa	720
ggcgtcagc	tgccacagcc	ggctgctcgc	tcaccagacg	gtgcacacgg	gaaccaaggc	780
cttcgagtgc	cccagtgctg	gccagacctt	ccggtgggct	tcaaacctgc	agcggccacca	840
gaagaaccac	acgcgcgaga	agcccttctg	ctgcgaggcc	tgcgggcagg	cgttcagcct	900
gaaggaccgc	ctggctcagc	accgcaaggt	ccacaccgag	cacaggccct	actcgtgtgg	960
cgactgtggg	aaagccttca	agcagaagtc	caaccttctc	agacaccagc	tgggtgcacac	1020
cggggagcgg	ccgttctact	gcgcggactg	cggcaaagcc	ttccggacca	aggagaacct	1080
cagccaccac	cagagggtcc	acagcgggga	gaagccctac	acctgtgccg	agtgcggcaa	1140

gtccttcggt tggcccaagg gcttcagcat ccaccggagg ctgcacctga cgaagagggt 1200  
ctacgagtgc ggccactgtg ggaaaggcct ccgtcacctg gggttcttca cgcggcatca 1260  
gaggactcac aggcacgggg aggtgtaggg gogccogaag agtggggtgc tgcgcctctg 1320  
cgaggagtact gggtcctgag gaagagctgc agtgagaagt tgctcttcag cctggaaaat 1380  
caacctgaat tcagagaagc cttcttagtc ctacagagctc ccagtcacc cgagaagttt 1440  
actgggaaaa ctgccagggt ggagaagcag agccatgggt acgccggaga tggcgggggc 1500  
tctggagatg gcgggggctg cgcgccggcg ccgggcatcc tggggatgtg ctgagagtgt 1560  
gcgcgacccc ggagccacgt gccaggccgg gctcagaggc ggagaagcct gcctggtgcc 1620  
cacagccgtc tggctcaggg actccaccct ggccccgagt tgccgtctgc tgggcctttc 1680  
cttcctggct ctgcacccca tgctggctgc ccggtctggc ttcccttctt gtctctgtct 1740  
tgggcgaggc agctgtgagc attgcacaga ggcaaagacc ctctgcagc ctctgcctg 1800  
ggccgtagaa acaagagcct ttgtaatacc gaacctcatt caaggattag gagtgggtgt 1860  
taggtcaggg ccacccccag tgctgcagga acggcctcca ccagctctg ttggtcagag 1920  
cctgggtcat gcacctggag ttgggagatc aagtgggtgc tcagggcagt gaggtggcca 1980  
tatccaccac atcgcatttc gtgggggaag aggtgacctc tttgttttaa acttaagggt 2040  
tctgcttata cagccagaaa taaaaatctg ccagtggtgt tccaaggga agacccccgt 2100  
gggaatgggt cggg 2114

<210> 10958  
<211> 2603  
<212> DNA  
<213> Homo sapiens

<400> 10958  
ataaagaatg gggggcgggg ggtattggaa aggctgatca ataaggctgg gcttcatgtc 60  
aaacatgtca atgtatgctt aggccagttt caaatgtttg gtggcatitt gtccacaaaa 120  
ggatagagtg tgtgcatcat atttgttttt ttgtttttt cacaaaattg agttaaatcc 180  
agtgtttttg ttattggcta ttcttcatgt agctttcttt aggggtgggtg ttacaaaaga 240  
cttcggcatg gtttcacaga gactcattcc agtggaaatcc agttagatgg tcctaattgt 300  
ttcgttccag ctatgacatg tgttttgatt cacagtatgc ttggatggac tgtgtggatg 360  
cttcattcct atggaagaca taattcagaa cagaaaactt gtaacagcag catcttgctt 420  
gcaaaaattat ttaagaaaaa aaaaaaaga ctttctgggt aatacaaaaa tctttaactg 480  
tccttttagat aggtactgtt tcaagtaatt aacctactgt gattctcaac aatgggtcca 540  
taatagcctt acctgaacat taactcctcc tatttgcccc cattactccc agagattccg 600  
gtattttttt agtggggctt tgggtgggtg gtgcgtgtat gtatgtatgt gtatatgtta 660  
tgtatacaca tgcacatatg tgccctgggt gtatgtaact atgtatgtat atacacacat 720  
atttttaaac ataaattttt ataattttca ttttaacaa aagtatacag atatataatc 780  
ttaagcacca caggtgagtt tgaagtccag ccattgtttg gaacctatga atcaaacaca 840  
atttttttaa agcactttgc tttcatgaca aataatacac ttaaggatag gaagagaagg 900  
agatgtcac agatacaaa acgttaaaaa aaaaaatgcc catgttcacg aaggggcttg 960  
cgtacaacca attgctctct ttttcacgg gctcttttga ttttacataa agttcagtcg 1020  
tataaaactc tgtaaaattt cattatgttt ttaaagtcag aggcaggga aaagtcacct 1080  
ccagggtgtt agaaaactaa aaaagactgc catttcactg ggctaagttt gaagccccgc 1140  
agatgcaagt gccttgtatt catgagtcca caaataagga ggtgttaatg atcaaggtag 1200  
tgggtgagtg gatcctggta aatacagctt caattggaga tggactcaag cagttcagca 1260  
tatacagcag acacacaagc tgatgataac cacttactat gtgctaggta ctgttctgat 1320  
gctttgotta catcacctca tgacatctcg acaacaaggt aggtattatt atccctgctt 1380

tatcaatgag	aatttcagtc	acagaccott	gactacattt	gctcagctag	taggcaggga	1440
ctggaactca	aatccgtgtg	acttcaaagc	cacgcagcaa	ccaccacacc	agtcatatgc	1500
tctgccctgt	ggattgggcc	atattgaaac	aataaagacc	atcgagctga	tggatttcga	1560
accacttcag	agaaatatgt	aaaaggctta	catgcaaaaa	tatgttcaga	agacaagcca	1620
aaaggccaag	tattcttgta	aatgtggcag	tgatgactga	agactttatt	aaaaatatat	1680
taagcgtgta	gatagagagt	gaactgctca	taaatctagg	tggttttgtt	tacttctatt	1740
tttctgtatg	tttgagatat	ttcattgctg	attatTTTTg	ggcaacggga	catggaagaa	1800
agttgataag	ctcttctgaa	ttatgactta	ttcaggtagt	tttgcataaa	ccagagggca	1860
gataattgct	gatatgacct	caacaaagag	ataagggtga	gaaagggaatg	tttgctaatt	1920
atctacaaaag	gaaagagaaa	ggtgagaaat	aataagttac	ctgattctct	gtgttctgtg	1980
cttacttggt	cctccaaagc	attctcccca	gcattgtctct	tccagcttaa	taactgaaaa	2040
cacttagtca	acaacaatac	actctagtgg	aaaagagatc	ctgttagttt	tctagacgat	2100
gcctgttggtg	ggtatatattg	ttccaaaatt	atattagtgc	tcatgagctg	gaatcgctgc	2160
actttacaca	ctcaaaatta	tgagaccatt	tgtccccggg	ggtagctcag	tttttgaggt	2220
gaacctcaaa	agcaatcctt	ggctaacaga	agattcttcc	agattctagc	aatgtttgtt	2280
caaagtgggg	catagctggc	cagggtgtagt	ggctcacacc	tgtaatctca	gcactttggg	2340
aggctgaagc	aggcagatca	cctgagggtta	agagttcaag	accagcctgg	ccaacatggt	2400
gaaaccctgt	ctctagtaaa	aatacaaaaa	attagctagg	cgtgggtggca	cacgcctgta	2460
atcacagcta	cttgggaggc	tgaggcatga	gaattgottg	aaccaggag	gcggaggttg	2520
cagtggggccg	agattgcacc	acttcaactcc	agcctgggtg	acagagttag	actccatctc	2580
aaaacaaaca	aaaaacaaaa	agc				2603

<210> 10959

<211> 1244

<212> DNA

<213> Homo sapiens

<400> 10959

tgaaaatgcc	tttcccttag	aattctcatt	ctctccttca	gttactcaca	tccaaaaatt	60
atttaaggcc	taaaccaagt	ccaatcatct	tcaagcagct	ttcttccact	cccaccacc	120
atagagatag	atctctcttt	cccttacctt	cctgtagcac	tttgttatct	atacctctca	180
tgtgcaacta	ccccagctcc	aattctggat	gtcttggtct	cctagtgaga	ttgtgagctc	240
ttcaaggtaa	ggatcatgtc	tttgtgcttc	cttcttttgt	gactctgaag	tgcataacat	300
ggtgatgtgc	cttgggaatt	ttcaataaat	attcatggga	aaaatgaaca	tatcaatgta	360
ttaagctcaa	taaagtccgt	tttcctaaaa	acagtccttc	attgotgaag	tgtgaaagca	420
tgtaaaactat	aatctactgg	atttggtatt	tttattattc	ttttttacta	atatatacat	480
tctaacaactt	tttgaccact	gcttagagaa	aatagaaggc	atgottatca	aatttcagat	540
ggcacgaatt	agaagtaata	agtaatgcac	gagataacag	aatcaaaaaac	tagacaaatt	600
agaaataagt	aaataacatt	taacagggat	aactacaaaa	ttagatttta	aaagaacagg	660
tacccaattt	cagtatggaa	agacatggct	aacatcaggt	tttaattggc	tgctagactg	720
acatgagccc	agagtggtag	acagaaccct	gttcatagtt	agactcaggg	cactgagtgg	780
taggtgaaaat	attcaggctc	caacaaggca	caggcatgaa	tgaagattgc	tagatggttg	840
ccagctagag	acagatggag	cctcaatgtc	tggtaaagtc	tgcagtaaag	agcagaatga	900
agtcctatac	tttattttaac	ccgggagcta	aacaaataaa	caatatataa	taagaataaa	960
taggctgggt	gcagtggctc	atgcctgtaa	tcccagcacg	ttgggaggcc	gaggcaggcg	1020
gatcacctca	gttgaggagt	ttgagactag	cctgaccaac	atggagaaac	tccgtctcta	1080
ctaaaaatac	aaaatttagcc	aggcgtggtg	gcacatgcct	ataatcccag	ctactcggga	1140

-4423/13211-

ggccgaggca ggagaatcac ttgaaccccg gttgcagagg ttgcagtgag ctgagatcgc 1200  
gccattgcac tccagcctgg gaaacaagag cgaaactcca tctc 1244

<210> 10960  
<211> 1672  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (17)..(1303)

<400> 10960  
aaaggcgcgc gggaacatgg ggctgtatgc tgcagctgca ggctgttgg ccggcgtgga 60  
gagccgccag ggctctatca aggggttgggt gtactccagc aacttccaga acgtgaagca 120  
gctgtacgcg ctgggtgtgcg aaacgcagcg ctactccgcc gtgctggatg ctgtgatcgc 180  
cagcgccggc ctctctccgtg cggagaagaa gctgcggccg cacctggcca aggtgctagt 240  
gtatgagttg ttgttgggaa agggctttcg aggggggtggg ggccgatgga aggtctctgtt 300  
gggcccggcac caggcgaggc tcaaggctga gttggctcgg ctcaagggtt atcgggggtgt 360  
gagccggaat gaggacctgt tggaagtggg atccaggcct ggtccagcct cccagctgcc 420  
tcgatttgtg cgtgtgaaca ctctcaagac ctgctccgat gatgtagttg attatttcaa 480  
gagacaaggt ttctcctatc agggctcgggc ttccagcctc gatgacttac gagccctcaa 540  
ggggaagcat ttctccttg accccttgat gccggagctg ctggtgtttc ccgccagac 600  
agatctgcat gaacaccac tgtaccgggc cggacacctc attctgcagg acagggccag 660  
ctgtctccca gccatgctgc tggaccccc gccaggctcc catgtcatg atgcctgtgc 720  
cgccccaggc aataagacca gtcacttggc tgccttctg aagaaccaag ggaagatctt 780  
tgcccttgac ctggatgcca agcggctggc atccatggcc acgtgctgg ccggggctgg 840  
cgtctcttgc tgtgaactgg ctgaggagga ctctctggcg gtctccccct cggatccacg 900  
ctaccatgag gtccactaca tcttcttgga tcttctctgc agtggctcgg gtatgccgag 960  
cagacagctg gaggagcccc gggcaggcac acctagcccc gtgcgtctgc atgccctggc 1020  
agggttccag cagcgagccc tgtgccacgc actcactttc ccttccctgc agcggctcgt 1080  
ctactccacg tgctccctct gccaggagga gaatgaagac gtggtgcgag atgcgctgca 1140  
gcagaacccg ggcgccctca ggctagctcc cgccctgcct gcctggcccc accgaggcct 1200  
gagcacgttc ccgggtgccg agcactgcct ccgggcctcc cctgagacca cactcagcag 1260  
tggtctcttc gttgctgtaa ttgaacgggt cgaggtgcca aggtgagtga gtgggggctgt 1320  
gcttgggagg cgcaggatgg caccggcaca tctaactct acacttctct agctcagcct 1380  
cacaggccaa agcatcagca ccagaacgca caccagccc agcccaaaag agaaagaaga 1440  
gacagcaaag agccgcagcc ggtgcttgca caccgccttg cacatagcag aggtccggg 1500  
ctgactcctt cctgggtggga aaggaagatg cctgtctct ccgtggagga ccctgggccc 1560  
tcaccgcagg aagcagttt ggttttgaag ggttattggg tcccttctt gggctgtgtt 1620  
cttgctgggt agcaaatgt tgcctgcaaa aataaaatgc agaacgtact ct 1672

<210> 10961  
<211> 429  
<212> PRT  
<213> Homo sapiens

09629469.072800

<400> 10961

Met	Gly	Leu	Tyr	Ala	Ala	Ala	Ala	Gly	Val	Leu	Ala	Gly	Val	Glu	Ser
1				5					10					15	
Arg	Gln	Gly	Ser	Ile	Lys	Gly	Leu	Val	Tyr	Ser	Ser	Asn	Phe	Gln	Asn
			20					25					30		
Val	Lys	Gln	Leu	Tyr	Ala	Leu	Val	Cys	Glu	Thr	Gln	Arg	Tyr	Ser	Ala
		35					40					45			
Val	Leu	Asp	Ala	Val	Ile	Ala	Ser	Ala	Gly	Leu	Leu	Arg	Ala	Glu	Lys
	50					55					60				
Lys	Leu	Arg	Pro	His	Leu	Ala	Lys	Val	Leu	Val	Tyr	Glu	Leu	Leu	Leu
65					70					75					80
Gly	Lys	Gly	Phe	Arg	Gly	Gly	Gly	Gly	Arg	Trp	Lys	Ala	Leu	Leu	Gly
				85					90					95	
Arg	His	Gln	Ala	Arg	Leu	Lys	Ala	Glu	Leu	Ala	Arg	Leu	Lys	Val	His
			100					105					110		
Arg	Gly	Val	Ser	Arg	Asn	Glu	Asp	Leu	Leu	Glu	Val	Gly	Ser	Arg	Pro
	115					120						125			
Gly	Pro	Ala	Ser	Gln	Leu	Pro	Arg	Phe	Val	Arg	Val	Asn	Thr	Leu	Lys
	130					135					140				
Thr	Cys	Ser	Asp	Asp	Val	Val	Asp	Tyr	Phe	Lys	Arg	Gln	Gly	Phe	Ser
145					150					155					160
Tyr	Gln	Gly	Arg	Ala	Ser	Ser	Leu	Asp	Asp	Leu	Arg	Ala	Leu	Lys	Gly
				165					170					175	
Lys	His	Phe	Leu	Leu	Asp	Pro	Leu	Met	Pro	Glu	Leu	Leu	Val	Phe	Pro
			180					185					190		
Ala	Gln	Thr	Asp	Leu	His	Glu	His	Pro	Leu	Tyr	Arg	Ala	Gly	His	Leu
		195					200					205			
Ile	Leu	Gln	Asp	Arg	Ala	Ser	Cys	Leu	Pro	Ala	Met	Leu	Leu	Asp	Pro
	210					215					220				
Pro	Pro	Gly	Ser	His	Val	Ile	Asp	Ala	Cys	Ala	Ala	Pro	Gly	Asn	Lys
225					230					235					240
Thr	Ser	His	Leu	Ala	Ala	Leu	Leu	Lys	Asn	Gln	Gly	Lys	Ile	Phe	Ala
				245					250					255	
Phe	Asp	Leu	Asp	Ala	Lys	Arg	Leu	Ala	Ser	Met	Ala	Thr	Leu	Leu	Ala
		260					265					270			
Arg	Ala	Gly	Val	Ser	Cys	Cys	Glu	Leu	Ala	Glu	Glu	Asp	Phe	Leu	Ala
		275					280					285			
Val	Ser	Pro	Ser	Asp	Pro	Arg	Tyr	His	Glu	Val	His	Tyr	Ile	Leu	Leu
	290					295						300			
Asp	Pro	Ser	Cys	Ser	Gly	Ser	Gly	Met	Pro	Ser	Arg	Gln	Leu	Glu	Glu
305					310					315					320
Pro	Gly	Ala	Gly	Thr	Pro	Ser	Pro	Val	Arg	Leu	His	Ala	Leu	Ala	Gly
				325					330					335	
Phe	Gln	Gln	Arg	Ala	Leu	Cys	His	Ala	Leu	Thr	Phe	Pro	Ser	Leu	Gln
			340					345				350			
Arg	Leu	Val	Tyr	Ser	Thr	Cys	Ser	Leu	Cys	Gln	Glu	Glu	Asn	Glu	Asp
		355					360					365			

09629469.072600

Val Val Arg Asp Ala Leu Gln Gln Asn Pro Gly Ala Phe Arg Leu Ala  
 370 375 380  
 Pro Ala Leu Pro Ala Trp Pro His Arg Gly Leu Ser Thr Phe Pro Gly  
 385 390 395 400  
 Ala Glu His Cys Leu Arg Ala Ser Pro Glu Thr Thr Leu Ser Ser Gly  
 405 410 415  
 Phe Phe Val Ala Val Ile Glu Arg Val Glu Val Pro Arg  
 420 425

<210> 10962  
 <211> 2390  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (26).. (232)

<400> 10962  
 ggccctttttt tttttttttt ttgagatgga gtctctgtca ctcaggctgg agtgcaatgg 60  
 cgcgatctca gctcaccaca atctccgcct cctgggttca agcaattctc cggcctcagc 120  
 ctcccagagta gctgggatta caggcgcatg ccaccacacc cagctaattt ttgtttttcg 180  
 agtagagatg gggtttcacc atgttggcca ggctgggtctt gaactcctga tgtaatccac 240  
 ccacctcggc ctcccaaagt gcagggatta taggcgtgag ccactgcgtc cggctcaagt 300  
 gaatgttctt aatgggatca tgggatctag aatgggtgaat ccttttcaga aggtggactt 360  
 tgcccagatc catcaaagga atcactatct atggcagtggt tgccttatga aatgtgtttc 420  
 ttaggtaata acacttgaaa gtctgaatta ctctggata catggactgc agaatggatg 480  
 ttgtggtagc aggcattgaaa acaacattaa tcttgtacat ctccatcaga gcttttggat 540  
 gactaggtgc cttgtcaatg agcagtaata ttttgagaag aatctttttt ttgcaagcag 600  
 taggtctcaa tgggtgggctt aaaaatattc agtaaaactat gotgtaaaca gatgtgctgt 660  
 catccaagct ttgttccatt tatagagcac aggtagaata cagttagcat gattcctaag 720  
 gcctgtagga ttttcagaat agtaataaag catttggcttc aatttaaaaa gttactagct 780  
 gcatttgtct ctaacaaggg tcagcctgtc ctgtggagct ttgaagccag ccattgactt 840  
 ctctctagct atagaagtcc tagatggcat ctttttccaa cataaggctg ttttgtctat 900  
 agtagccacc ttcatcaagg tgggctaggt cttctagatg acttgctgca gcttctccgt 960  
 cagcaacttg tgcttgcttc atcttgcaaca tttatgttat ggaggtggct actttcctta 1020  
 aaccttggtt accagtctct gccagcttct aacttttctc tgtagcttcc tcgcctctct 1080  
 cagccctgtt gaattgaaga gagttagggt cttgctctgg attaggtttt gtttaaggg 1140  
 aatattgtgg ctggtttgat cttctgtcta gaccactcaa acttctttct tcccttttt 1200  
 tttttttttg agacaagggt tcgctctgtc acccagcatg gaatgcagtg gcatgattat 1260  
 ggcttactgt agcctcagcc tcccaacctc aagcagtcct cccacctcaa cccccccagg 1320  
 ttgctgggat tgcaggcata tgccaccatc cctggctaata ttttatttta tttttttag 1380  
 agacaggatc agcgtatgtt gaccatgctg gtctcgaatt cctggcctca agcagttgtc 1440  
 ccgccttggc ctcccaaagc actaggttta caggcatgag ccactacacc ctgccaaaac 1500  
 tttctctata tcagcaatag gctgtttcac tttattttat ttattttatt ttacatttta 1560  
 ctttaagtgc tgggatacat gtgcagaacg tgcagatttg ttatataggt atacatgtgc 1620  
 cattgatggt ttgctgcacc tatcgacctg tcatctaggt ttttaagcccc acatgcatta 1680

09629469.072800



```

ggtatttgtc ctaatgctct ccccttccctt gctccccacc tcctgacagg cccctttgtg 1740
tgatgttccc ctccctgtgt ccataatgtt ccatgtttca actcccactt ttgagtgaga 1800
acatgcagtg tttggttttc tgttccctgt ttagtttgcg gagaatgatg gcttccagct 1860
tcacccatgt cctgcaaag gacatgaact cactcttttt tatggctgca ggctgtttca 1920
ctttatcact cgtgttccact ggagtagcac ttttaatttc tttcaagaac ttttccctcg 1980
ctttaacaat gtggctgttt ggcacaagag goccagcttt cagccctctt tggcttttga 2040
catgctttct tcactaggct taatcatttt tagcttttga ttgaaagcga gggacatgtg 2100
actcctcctt tcacttgagc acttagaggg cattgtggga ttattaattg gcctaatttc 2160
tttttttttt gaaacagagt ctgcctctgt tgcccagggt ggagtgtagt ggcacgatct 2220
cggctcactg caacctccgc ctccgagggt caagcgatcc tcctgtctta atcccagcta 2280
ctcaggaggc tgaggcagga gaatcgcttg atgaaaccaa gaggcggatg ttgcagttag 2340
ctgagatcac gccattgcgc tccagcctgg gtagcgagta aaactgtctc 2390

```

<210> 10963  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 10963  
 Met Glu Ser Leu Ser Leu Arg Leu Glu Cys Asn Gly Ala Ile Ser Ala  
 1 5 10 15  
 His His Asn Leu Arg Leu Leu Gly Ser Ser Asn Ser Pro Ala Ser Ala  
 20 25 30  
 Ser Arg Val Ala Gly Ile Thr Gly Ala Cys His His Thr Gln Leu Ile  
 35 40 45  
 Phe Val Phe Arg Val Glu Met Gly Phe His His Val Gly Gln Ala Gly  
 50 55 60  
 Leu Glu Leu Leu Met  
 65

<210> 10964  
 <211> 1487  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (299).. (949)

<400> 10964  
 agttggctcg tgggccagtg gcccgctcgt cgcttctggg ctctcatgtt tgaaggtggg 60  
 agggacacgg gagcgcccg cacaccttat tgacagccac cctcaggac atggaaaagg 120  
 agctaggaat taagcaccac ctccacagga agaagcttgt tttagcagtg aaagccatca 180  
 acacaaaaca ggaggagaag tctgcactgc tagaccacat ttgggtgaca aggaggcttg 240  
 atgatatttg ctaccccagt acaaagacca gtttcatgaa tctagagttg acggacgaat 300  
 gctgcaatac ctaactgtga acgatttact cttotaaaaa gtcaccagcc aactacatca 360

09629469.072300

```

tctcagcatt aaatgtgcca ttcaagtgtt gcatgtcaac aagttcaacc cccactgcct 420
gcaccggcgg ccagctgatg agagtaacct ttctccttca gaagttgtac agtgggtccaa 480
ccacaggggtg atggagtggg taogatttgt ggacctggca gattatgcac ccaattcttg 540
agggagtggg gtccatggag gcctcattat cctggagcca cgcttcaactg gggacaccct 600
ggctatgctt ctcaacatcc cccacacaaa gacgctcctc aggcgccacc tgaccaccaa 660
gttcaatgcc ttgattgggt cggagggtga acaggaaaag cgagagaaaa tggcctcacc 720
agcttacaca ccactgacca ccacagccaa agtccggcca aggaaactag gattttcaca 780
cttcggaaac ataagaaaaa agaagttcga tgaatcgacg gactacattt gccaatgga 840
gcccagtgac ggtgtcagtg atagtcacag ggtctacagt ggctaccggg gcctcagccc 900
ccttgatgcc cctgaactgg atgggctgga ccagggtggga cagattagct gattcccttg 960
tcacctgccc tctgtgcacc ctgagagctc acagtaaac tgtgtgtgtc accatataac 1020
tgcacctcac cccgcacgt gtgcatgact cgcagagaat attccagcaa ttgtgtaccc 1080
ctgggcccagt ctctttgaac cctgagggtg gccaggatct ggagctgcat ctctaagggg 1140
ccaggctttg gggaccattg ccaaagggtg actcaggagg aaagacactt aaagacactt 1200
ttacatgtct agtaattctt gatgttcatc ttcagcacca gtggaaacac atgaacttcg 1260
atgcaggctc agagaccatg gacactccca cgaggctcag ctctcaggca cccctacac 1320
ttcagttgag ggaaaagctc aagtgcctta ggcccgtgga ccacagtctt ggctgagatc 1380
aaagggatga gcaacaggga cttctgccac agtgacaatg gaattgtgtt gtgccttact 1440
tcagggtggg tctcttcttt cttgtaataa aagcaatatt tatgcgg 1487

```

<210> 10965  
 <211> 217  
 <212> PRT  
 <213> Homo sapiens

<400> 10965

Met	Leu	Gln	Tyr	Leu	Thr	Val	Asn	Asp	Leu	Leu	Phe	Leu	Lys	Val	Thr
1				5					10					15	
Ser	Gln	Leu	His	His	Leu	Ser	Ile	Lys	Cys	Ala	Ile	His	Val	Leu	His
			20					25					30		
Val	Asn	Lys	Phe	Asn	Pro	His	Cys	Leu	His	Arg	Arg	Pro	Ala	Asp	Glu
		35					40					45			
Ser	Asn	Leu	Ser	Pro	Ser	Glu	Val	Val	Gln	Trp	Ser	Asn	His	Arg	Val
	50					55					60				
Met	Glu	Trp	Leu	Arg	Ser	Val	Asp	Leu	Ala	Glu	Tyr	Ala	Pro	Asn	Leu
65					70					75				80	
Arg	Gly	Ser	Gly	Val	His	Gly	Gly	Leu	Ile	Ile	Leu	Glu	Pro	Arg	Phe
			85					90						95	
Thr	Gly	Asp	Thr	Leu	Ala	Met	Leu	Leu	Asn	Ile	Pro	Pro	Gln	Lys	Thr
			100					105					110		
Leu	Leu	Arg	Arg	His	Leu	Thr	Thr	Lys	Phe	Asn	Ala	Leu	Ile	Gly	Pro
		115					120					125			
Glu	Ala	Glu	Gln	Glu	Lys	Arg	Glu	Lys	Met	Ala	Ser	Pro	Ala	Tyr	Thr
	130					135					140				
Pro	Leu	Thr	Thr	Thr	Ala	Lys	Val	Arg	Pro	Arg	Lys	Leu	Gly	Phe	Ser
145					150					155				160	
His	Phe	Gly	Asn	Ile	Arg	Lys	Lys	Lys	Phe	Asp	Glu	Ser	Thr	Asp	Tyr

0969469.073800

165 170 175  
Ile Cys Pro Met Glu Pro Ser Asp Gly Val Ser Asp Ser His Arg Val  
180 185 190  
Tyr Ser Gly Tyr Arg Gly Leu Ser Pro Leu Asp Ala Pro Glu Leu Asp  
195 200 205  
Gly Leu Asp Gln Val Gly Gln Ile Ser  
210 215

<210> 10966  
<211> 1404  
<212> DNA  
<213> Homo sapiens

<400> 10966  
tgatgatgat tgtcttaaca tgtattttcta atcaactttaa aacctcactg tgatagattt 60  
gcttgttcct tgtacttttg tgggtacaatc taatagattt ttttctttga ggtttactct 120  
atttttagat attaaaagta ttttaaactg aaatgatgac tcatacgtgg atataagaaa 180  
ataaaaagca gctctgtttc ctacattttt tactgctttt tactctccca atttttatgt 240  
cttttcatca attctgcaat agacagagat taatagtagc acttgcagtt ttgcgtgaga 300  
catatccagt tcaactgaaga cccacttttag tgttttgagg ggaaaaaaca agtcttttct 360  
gaaataatga gttcaagatt gatttgaggt ttaggaagac ttttagcaaa ctcaatcgct 420  
caggagctga ttctcagctt atcagtaatc acatcctttc ctattccctt ctgcagacaa 480  
tatctgacta ttttcaggct tgttagaagg gagagtaaga ggaagtttag ttctagatca 540  
totatttttt tttccctgta agtaagttgc ttgatataa gatttggtgg tggtaatcag 600  
ttgcttaaat gatatcctaa aataatctcc agctcattta ataactgcct tcaactaaatt 660  
tttattaatg gttttgtttt agttttaagc tcttttaagt ctttttcagg ccttctttta 720  
ctccgtcctg acaagtgtgg ttttgaatac tgattttctgt ctttgacttg acttttagta 780  
tatttaagtg gtgtgagttt tggataagtt tccttttaaa atgatccac aaaatataga 840  
gagaagcaat tctcctgcct cagcctccta aggagctatt ttttgtattt tagtagagac 900  
agggtttcac cgtgttggtc aggctggtct cgaactcctg acctcaagt atccacccgc 960  
cttggcctcc caaagtgtct ggattacagg tgtgagccac cgtgccagc tagattcttt 1020  
actttttaat aaagttcaaa atagctttta ataaggttgt caaatgtgac caaaatttca 1080  
tagaagtcca aaatattatg cctctttctg tagatcaaat gaaatatggc ccaatttaca 1140  
agggtataca cttcatggt agatgaatat agatttttaa ctagttttta aaggaatatg 1200  
aatgatttaa ttgtagtttc tgctgcaaaa aagtctccat aattattttt taataactta 1260  
taactacctt gatctttacc tgtacacaca cacacacaca catgcacaga gtaatttcac 1320  
ttagaatcct ggtcaaaaat tttcttcac ttaaattttt ttttaagactc tcacaaatat 1380  
acatcatggt tttctttagt cggc 1404

<210> 10967  
<211> 2492  
<212> DNA  
<213> Homo sapiens

<400> 10967  
tattagatgg ggataagtaa agattatgat aacttcatgt catttcaggt cagattttgc 60

09629459.072800

09629469.072800

```

ttccaaatga tttgcacaca cttaggaaaa aaattttctgt tttcagaacg ttttggattt 120
cagaattgca gataaaggat tgtggaccca taattttctc ctgttttgca ctggcggtag 180
tttaacttgt ggaccatcaa aaaaatatgt ttgagagagg acccttatca cctcttttgt 240
ttaaaaaagca aaataaactt tgtttccacc aaaatgcctg cctccccgac atttaggggc 300
tgtgtgtggca ccattcctgt gtgtgtcccc ttggtagctt agttccaagc ttgacagtgc 360
tcaggggtgg ggagtctctc ctgctctccc ttaccctcac cccaccagt ctcttcagct 420
gcatcccgtt tctcctcttc taagggatct ggagagttagc tggcttccat catcttccgt 480
gtgaggaccg tcacagcttg cactgctcag caggcagctt ttctggacac cacactctcc 540
ccaagccttt gtttcttgat tttgggagca ttgccatgg aaaccatttt ggctcatctt 600
atcccattcc cagtggtgtc ccaaggcttt gccacacag tgccacaatg aaaaatgcag 660
cctggctcac cgttttgctt ttcacgtttt catcgcttat ttggctcatg gcacaatccc 720
acggaatcct ctgcagaggg tgggtgttgc ccattccctc tgaccaagt gttggctctc 780
actctgtcca gtgtgagaca cacctttcac acccacagt atgcctcact gcatccaaag 840
ccattctgag attagcacag tctcaggcca gatggtttga ccaattccaa ttctgtctcc 900
cacgttggct ccttagggcc tcttatgttc catttagctg ttgtttctcc ggtatatgaa 960
gtacatcaag cagttagtat cttcagcaac tgtctatacc agtaagtatc tggctgtcgg 1020
tggtgggtggc ttagttttgg cagtactacc agcttctccc agcacctggc ttatcagaat 1080
acaggattca tgccatgtgg ctcttacttg ggccaagagt cttcagtcag cccagtgaat 1140
taagttgcca aggaaactgt gtctagttag acctcaagat ttacaactca ttcttaggct 1200
acaaggtttt ctccagaatt tttgctgaca cagttttatt ccataacctc ccagccctgt 1260
ggggtgtata aatctttgag cttctctgga gaattcactt tactgcatgc aaggccatga 1320
atagggatca aaagaagttt ggcttcaggg gcctcatgaa cttggaaatt gtatgacta 1380
ttttgtgtgg atgtatgtat gggcattttt tttatgggaa gaggcttgca ctgggtgtct 1440
agcagcatat tctgaaacag ttagacttg ggaatctat ttagtcttct gagcctctgg 1500
aaagttagga taatactaga ttctgtccca ttcatgtgta atgaggataa aatgagaagt 1560
gcatataaac tgtctagtac agtgtccata aatattcata aatgttagct atcatittgac 1620
tgtgagcctc aaagggttaa gatgatgtga ctgcctttcg ttcttagga ttaggtggca 1680
gatatagaat ttgaaatcat tttctttatg ctgcacagaa aatcttcaca gtactgcctg 1740
gtgtgatctc cttagcatcc ttgttgggtg gtgggaaaga gtgcatgact atcctctttt 1800
acaggtgagg aaactgaggc tcaccatgat cacctagcta ataaggctcc aaaaaaatag 1860
gtcctgtcca caatctggtg ggacaaacag atcctaagac aagcaattac agaccacgat 1920
gagcaccatc acccttgaag tacaggatgt taaagcatct acgaaggatc gggcaggctt 1980
cctgggtgga caatccgatc cctgaaatgt gggtaggaat aggttaggca aacgaatgga 2040
ctttgagaga gtgttgcatg tagaaggaac agcatgtgct gatgcctcga gggaggagc 2100
gctcatgggt cgggtgcctc gcagcaagag ggagtgggag atgaggccag ggggaagttt 2160
cttttaaccc ctaaaaaaa ggagatgaat gtgcaaagaa aaaggaaagg aaggccgggt 2220
gcggtggctc atgcctgtaa tcccagcact ttgggaggct gaggtggatg gatcacatga 2280
ggtcaggagt tcgagaccag cctggtcaac ctggtgaaac tccgtctota ctaaaaatac 2340
aaaaattagc caggcttggg ggaggtacc ttagtccca gctgctaggg aggctgaggc 2400
aggagaatcg cttgagcctg ggaggtggag gttgtggtga gccaaagatc tgccactgca 2460
ctccagcctg ggcgacagag caagactgtc tt 2492

```

<210> 10968  
 <211> 2339  
 <212> DNA  
 <213> Homo sapiens

<400> 10968

```
ttaatatgtt ttattcattt gtggacacta aaatagctca ggaaagtga aatgtcttag 60
acatacgcaa gtcacatgac catttaaattg tgcaaatgta agaagattca atgtgtttac 120
atcaaatgac atatatttatt gattttattgc agattcagtg catatgagcc aaattgttga 180
gtgtgtaaga gctatattgt gtattttatt aaattaatat atagtgtgtg tgcaaaaata 240
tttgggctta tattgtaaat ggcaagtgtt gcottggtag ctgtcgaact ctatgagttt 300
tgttttttcc tgcttccttt tccccatgga gtgtgggaag cagtgcctca gagcaaagtc 360
tcttgtttaa tgtatagtct accaagtact acagtacata atctgttcaa aatgtgtttg 420
agtgagctga tggagctaac tgaaagggtca aaaattacat ccatcagcca tggttatgtg 480
caagtccttg tagaagcttt tattaaggtc atgctaaatc acaagaattg acatttgtac 540
caatatctga aacttcttca tgttttttca ataacataca gcttctgctt gtgtagatat 600
tatgccatca gtcggttctc aaaagttatt taagtgtctc agatgtgtgt tcccattata 660
ttttgaaaac atgaaaaatg ctttaattgca tgtatgtacc agcagtggtt acttgcattg 720
tgtagtgttt ttcaagaggt ctgggtctta acaaaatgtt ttcttttctc tcagtgtctc 780
tctgcctctt tttgttggtg tcttttgaga acaatacacc ttctattcct tcatttgggt 840
acacctttcc ttgtgacatt tagcgagttt caaacttact tccatatgag gctaagaaac 900
ctcaaatttc aggaattggg aaaaaataaaa ttagcacttg cagaagtagc agcagatggg 960
aaaatgcctt gattgacatt ttctttcagc atttaaaatt tttggcattt tacagcttca 1020
tgacaaaacag ttttgtgccc ataccttaga aaatgtgggtg ctgagttaaa taaaggctgt 1080
ttgagcactg gagcagaaaa atgcattatt tgcaaaactgg tggataattt tgtgccttct 1140
cttctggcca ccaagccagt gtagaaacag caaaaatgtc ataaaaattc ttatatatta 1200
aacaacaaaca aaagcaaaaa caaacattga attaaattaa gttttgtaat tttaaacttt 1260
aaaaacttct actgaaaata tttccgcca atgccatcaa tatttttagac tgtacctcgt 1320
ttgcaaaact gctttgagag ggaagagtgg acaactccca tcagccttat tctcttgaga 1380
actatatttt ggttcctagt aacagccttt ccaaagctct actcttggtt tttattactc 1440
ataaatgttt aaattagaaa agaaggggacc ttgtacatgt gaaacctaat tgactctcta 1500
tattttggac aatttatgta tctgaaatgt gttgtctctg ttatatgatg ttatttttgc 1560
caggagacta caggttgatt tagcttgata gctgaaattt gatggaaaac tgatttccat 1620
ttagtcttac caagtgttgc ttctctctta ctagacagat atccacttag taaaatctaa 1680
agcagtatgt aaatgaaacc agcaaagaga gtagggttta ttttataaac attcttaatg 1740
ctaagtaacc agttgttcaa ttattatata gtgtctgagg acattaaaac accataagat 1800
tgtaataaatt gtttgtgcca atgtgtgagg gatttacctt taggctctct gtcaccagt 1860
atttactagt gttagctgtt taacacatta tctgtattta gtagtgatta tttatttaca 1920
agttgggtgt aattcagcag tcaggactct aagcttttat agttgaattg aggaaatctc 1980
gcttttattc atttagctgg caactgcctt tattgcagac ctctgggtgct tggctttcaa 2040
ggaagcctat gagatgccaa aatcacacct ttagagggca ccttgctcta ataggtgatg 2100
catgagcaaaa cagttagatt tgaagggtt ttaacataat ttagaatgtg aaaaaaatat 2160
caattcatat ctttcaagta ctaaccctc aaaaaagccc acacatacaa aatatgtgat 2220
gtgataccac tttgtctttt aggtctttta gtaactgaag ttaagcacag aaaaaaaaaa 2280
cacttcatgg aaatttcagt aagaaacca aacttctaaa aattgottgc agatgagct 2339
```

<210> 10969

<211> 3938

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (93).. (896)

<400> 10969

accgagaaga	agatatattac	cagttttgott	actgotaccc	atatacatat	actcgccttcc	60
aacattacct	tgacagcctg	caaaagagaa	acatggatta	cttcttttcgg	gagcagctgg	120
gccagagtgt	gcaacaacga	aagcttgacc	tcctgacgat	aaccagccct	gacaatctcc	180
gggaaggggc	agagcagaag	gtggtattca	tcacaggacg	agtccaccca	ggggaaacac	240
cctcatcatt	tgtgtgccaa	gggatcattg	acttccttgt	aagccagcac	cctattgcct	300
gtgtcctccg	ggaatacctg	gtcttcaaga	tcgcaccaat	gctcaatcct	gatggagtct	360
acctgggcaa	ttacagggtg	tctctgatgg	gatttgatct	gaatcgtcac	tggctggatc	420
cctctccatg	ggtccatcct	accctgcatg	gagtgaacaa	actcatcgtc	cagatgtaca	480
acgacccaaa	aacaagcctg	gagttttata	ttgacatcca	tgcccaactcc	accatgatga	540
atggcttcat	gtatggcaac	atctttgagg	atgaggaacg	gttccagagg	caggccattt	600
ttcccaagct	cctctgccag	aatgctgagg	acttctccta	ttccagcaca	ccctttaacc	660
gggacgctgt	gaaagcagga	actggccgtc	gcttcctcgg	tggactcctg	gaccacactt	720
cctattgcta	caccctagag	gtctccttct	acagctacat	catcagtggc	accacggctg	780
ctgtgcccta	cactgaagaa	gcctgtatcc	ttagtcccca	cccagccctg	ggccagccct	840
catccagccg	agagtatcca	agtctgacag	gtcaggaatt	aggcccccag	ctcaggtaag	900
ggctgagact	ctcaggtgag	gatggagggtg	cttcttcttc	tgggtggcgtc	tttggattgt	960
ccagtttgcc	tcagccctta	gtatgatact	cctaccccaa	ttgccatgct	ccaaatcttt	1020
cccaggccag	ccggacccat	ggcctgcccc	tatcttactc	tgcttccatc	tctctcccct	1080
ctcttctctc	atgatgcagt	gagtctcctg	ccatctaagc	tatgcaagtc	cacaggctgg	1140
atgaccatcc	ccagggttgc	tgaggaagag	cttgatgato	ttgactcctt	ctaaccctga	1200
acatacaaaa	acatatgttc	tcttttcatc	ttttgtctaa	cctatcctct	cccactttct	1260
cttccctcta	ctcactattt	ccccttctac	ttacttttct	cacccttggt	ccctctcctt	1320
ctatgccctc	ctcctccctc	ctcacctgtc	ctgtgcttct	ctttccttac	ttctttttcc	1380
ccctcctccc	ctcctttctg	tcctctctct	catcccatcc	tccttttctt	tctctcctct	1440
ttgcctgtct	tctgtcttcc	ttgtctttcc	cctctcatcc	tctgtgcato	tttctctctg	1500
cctttgcatt	tcctttgaca	aattcctttt	cctottagtt	tcttcataaa	atttctctga	1560
aaactccaaa	gccttccatg	atgaaattag	aagttatttt	ctagtttgcc	taatttttta	1620
aggattaggt	agtaactcta	gtttcccgag	tgttgatttt	aatatcaagg	tcactgcato	1680
agagctgtaa	cagatcgtgg	cagattctgc	tttccctgat	cctttgtttt	cgggttgatc	1740
tatgtctcct	ttcctaacac	ttagttttct	cagagaagtg	gagggaggag	gaaggaactt	1800
tagatgaaat	gaactctgta	tttctgcaaa	ttccccctcc	ctggaggtag	aagtgcctct	1860
ttagcatttt	ttcaaccctt	ggtgagtgtt	tatggaatto	ctctgtgcag	ggaaacatct	1920
tttctgaacg	tggcatgact	tagggctagt	cccaccagcc	aactgcaact	tagtggctct	1980
gtttgtatgt	gtgtttggga	gggttggggg	tatggtgtcc	aggtaccttg	ccaggaacat	2040
cggaagtagg	gcaatggccc	tagaaggagg	ggctgtcagg	gggtaggcca	ggtgttagag	2100
caatgttcca	catcctgttg	gacacagaga	tattatgatt	ggaactgaga	gttccctatg	2160
tacagtcato	aagactgagg	gtcatcttgc	agtctgcttt	aatacccacc	tgactcagca	2220
aggccaaggg	agtaggctct	gctctgagga	agagggctctg	tgggttccaa	agtcctggcc	2280
acctgttatg	tgccacattg	cccctcttca	tgccccatac	acaccttaga	tgatgcatat	2340
ggcctatgcc	ttctccagaa	tctgctaact	cctataaacac	atgcataatg	ttcattccac	2400
attgtacttg	ctttgctctc	ccataatatt	atggcaaaagg	gacagagagc	tgcttggaat	2460
aagagtttga	gcttgtgcac	taaaggggat	tctgcaaccc	ttattcatag	tgagatgagg	2520
gtccctccag	aggaggcctg	cccttagttt	gttgtttttt	gctgtccaat	ctgacaggct	2580
ctcctacctt	ttcttagcac	ttctgacatg	cttctgtctt	agaagaaaaat	gtgtttctta	2640

09629469.072800

```

gtagaaagcc cacccttgggt tcaggcccaa ggtttccacc cctcaacagc caacactcat 2700
ttatcaaaag taaacacagc attagtacat accaggaatc ataaaaggca cctagggttaa 2760
aatactgaat aaaaaggcat gattcctgac tcacagaact ttcagtctac ttggggagac 2820
agaaaaggga agagataatt acaatgtatg tgataaattc tgggtggagga attccagaag 2880
gctctggggac attttcattt gacaagtata tattgagtg cgtcataggt tcaggtaaag 2940
ttctaggcac aggggaatgta acagagaaca tactaaagac aagaatgtct ttacatgggg 3000
gaaagaggga actcacacgc agtcctagga gtcagggaag atttcccagg aaaagagaca 3060
tctaaactga gatTTTTTgt ttgtttgttt ttgagatgga gtctcactct gttaccagg 3120
ctagagtgtg gtggcatgat ctgagctcac tgcaacttct gcctcctggg ttcaagcgat 3180
tcccctgcct cagcctcctg agtagctggg attacagggtg tgcgccacca tgtccggcta 3240
atTTTTgtat ttttagcaga gatgggggtt taccatgttg gtcaggctgg tctcaaactt 3300
ctgacctcgt gatccacctg cttcggcctc ccaaagtgtc gagattacag gtgtaagcca 3360
ctgagccggg cctaaactga gtttttaata tgaactagtc aaactgggtg aggggtgttg 3420
tgaaggagg atgtggtaga cagagggggg agtacagaag gtatgggcag aagctgtaag 3480
tggtccctta gggctgaagg acttcagact caatgataag tctgaagtgg aaagatgtaa 3540
gaagtttgat cttgaatgta gacaatggaa ggacagattc gagggggcca gtattgtaga 3600
cagggacatg cattaggagg ctgttataaa aatccagggtg agaaataatc caggccaaga 3660
ccagagtggg ggctgtagaa tacttagaat gtggaactga gaagacttgg taattgacta 3720
tttgggagtg gcgacaggga atgggagctc gtgattggaa ggggttaagg tgagtagaga 3780
ggctatgcac aagctgagca ggtcgtgata ctgatggacc taccctgcct tgttctgtcc 3840
tctagaggat gagaagagga aacaaactgc accagggaag ctcaggccga ttcaatgcat 3900
gcaagggtga tttaacctgg gttctgtttg aaataact 3938

```

<210> 10970  
 <211> 268  
 <212> PRT  
 <213> Homo sapiens

<400> 10970

Met	Asp	Tyr	Phe	Phe	Arg	Glu	Gln	Leu	Gly	Gln	Ser	Val	Gln	Gln	Arg
1				5					10					15	
Lys	Leu	Asp	Leu	Leu	Thr	Ile	Thr	Ser	Pro	Asp	Asn	Leu	Arg	Glu	Gly
			20					25					30		
Ala	Glu	Gln	Lys	Val	Val	Phe	Ile	Thr	Gly	Arg	Val	His	Pro	Gly	Glu
			35				40					45			
Thr	Pro	Ser	Ser	Phe	Val	Cys	Gln	Gly	Ile	Ile	Asp	Phe	Leu	Val	Ser
	50					55					60				
Gln	His	Pro	Ile	Ala	Cys	Val	Leu	Arg	Glu	Tyr	Leu	Val	Phe	Lys	Ile
65					70				75					80	
Ala	Pro	Met	Leu	Asn	Pro	Asp	Gly	Val	Tyr	Leu	Gly	Asn	Tyr	Arg	Cys
				85				90						95	
Ser	Leu	Met	Gly	Phe	Asp	Leu	Asn	Arg	His	Trp	Leu	Asp	Pro	Ser	Pro
		100						105					110		
Trp	Val	His	Pro	Thr	Leu	His	Gly	Val	Lys	Gln	Leu	Ile	Val	Gln	Met
	115					120					125				
Tyr	Asn	Asp	Pro	Lys	Thr	Ser	Leu	Glu	Phe	Tyr	Ile	Asp	Ile	His	Ala
	130					135					140				

09629469.072800

-4433/13211-

His Ser Thr Met Met Asn Gly Phe Met Tyr Gly Asn Ile Phe Glu Asp  
145 150 155 160  
Glu Glu Arg Phe Gln Arg Gln Ala Ile Phe Pro Lys Leu Leu Cys Gln  
165 170 175  
Asn Ala Glu Asp Phe Ser Tyr Ser Ser Thr Pro Phe Asn Arg Asp Ala  
180 185 190  
Val Lys Ala Gly Thr Gly Arg Arg Phe Leu Gly Gly Leu Leu Asp His  
195 200 205  
Thr Ser Tyr Cys Tyr Thr Leu Glu Val Ser Phe Tyr Ser Tyr Ile Ile  
210 215 220  
Ser Gly Thr Thr Ala Ala Val Pro Tyr Thr Glu Glu Ala Cys Ile Leu  
225 230 235 240  
Ser Pro His Pro Ala Leu Gly Gln Pro Ser Ser Ser Arg Glu Tyr Pro  
245 250 255  
Ser Leu Thr Gly Gln Glu Leu Gly Pro Gln Leu Arg  
260 265

<210> 10971  
<211> 4224  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (54).. (3053)

<400> 10971  
agtgggtgtgg taccgggtac cgggagacgt gtatcggacg gtgggcccga gccatggccg 60  
agagaaaacc taacgggtggc agcggcggcg cctccacttc ctcacgggc actaacttac 120  
ttttctcctc ctccggccacg gagttcagct tcaatgtgcc cttcatccca gtcacccagg 180  
cctccgcttc tccggcctcc ctgctcttac cgggagagga ttccacagat gttggtgagg 240  
aggacagctt ccttggtcag acttctattc acacatctgc cccacagaca tttagttact 300  
tctctcaggt atcaagcagc agtgatcctt ttgggaatat tggacagtca ccattaacaa 360  
ctgcagcaac ctcagttgga caatcaggat tccccaaagg cctgactgct ctccctttta 420  
caactggatc ccaagatgtc tcgaatgcat ttccaccatc catttcgaag gctcaacctg 480  
gtgctccacc ttctcactg atgggaataa attcttatct gccttctcag ccaagtagtc 540  
tccctccttc atattttggg aaccaacccc aaggaattcc ccaaccagga tacaatccat 600  
atcgccatac ccctggcagc agcagggcta atccttacat tgcaccacc cagctgcagc 660  
agtgccaaac accaggccct cctgctcatc ctccaccttc tggacccctt gttcagatgt 720  
accagatgcc tccaggatct ttgccaccgg ttcttcttc agtgcagtca ccggcacagc 780  
agcaggatcc tgccagacct ggggctccct ctgttcaagt gccatctcct tttctacttc 840  
aaaaccaata tgagcctgtt cagccccact ggttttactg caaggaggta gaatacaaac 900  
aactgtggat gccttttagt gtgttcgact ctttgaatct tgaagaaatc tataattcag 960  
ttcagccaga tccggagagc gtggttcttg gcacggatgg agggcgctac gatgtttacc 1020  
tctatgaccg aataaggaag gctgcctact gggaagagga gccagccgaa gtgagacgct 1080  
gtacttgggt ttacaagggg gacacagata gtcgatttat tccctatact gaggagtcca 1140  
gtgaaaaact agaggctgaa tataaaaaag ctgtaaccac taatcagtgg caccgaagat 1200

00620469.072600



09629469.072600

tagagttttcc	aagtggagag	acaattgtta	tgcacaatcc	aaaggttatt	gttcagttcc	1260
agccctcctc	agtgccagat	gaatggggca	ccacgcaaga	tggacagaca	aggcccaggg	1320
ttgtaaagcg	tggaattgat	gataacottg	atgaaattcc	cgacggggag	atgcctcaag	1380
ttgaccattt	ggtgtttgtg	gtgcatggca	ttggacctgt	gtgtgactta	cgcttttaga	1440
gcattattga	gtgtgtggat	gatttttaggg	tggttttctt	caaattgctg	cggacacatt	1500
tcaagaaatc	tttagatgac	gggaaagtaa	gcagagtggg	gttccttcca	gttcattggc	1560
atagttcttt	gggtggggac	gccacagggt	tggacaggaa	tattaagaaa	atcactttgc	1620
caagtattgg	tcgatttcgt	cactttacca	atgaaacttt	gctagatatt	ttattttata	1680
acagccccac	ctactgtcag	acaattgttg	aaaaagtagg	aatggagata	aaccatctgc	1740
atgcactctt	tatgagtcgg	aaccagact	tcaaaggagg	tgtctctgtt	gctggtcaca	1800
gtttagggtt	tttaatatgt	tttgacatcc	tgtctaatac	aaaagatttg	aatttatcaa	1860
agtgccttgg	acctcttgct	gttgctaatt	gagttgtgaa	gcagctacat	tttcaggaaa	1920
agcagatgcc	tgaagagcca	aagctgactt	tggatgagtc	gtatgacctt	gttgttgaaa	1980
atgaagaagt	cctaactttg	caagaaactc	tggaaagcact	tagcctctct	gaatatttta	2040
gcacttttga	aaaggaaaag	attgatatgg	agtccttgc	tatgtgtaca	gttgatgacc	2100
tgaaggaaa	ggggataccc	cttggaccca	gaaagaagat	agctaacttt	gtagaacata	2160
aagcagccaa	actgaaaaaa	gcagcgccag	aaaagaaggc	agtggcgggc	acttctacaa	2220
aaggacaaga	gcaaagtgcc	cagaggacta	aagacatggc	ttccctcccc	tcagaatcca	2280
atgagccaaa	gaggaaactt	ccagttgggt	cttgcgtgtc	ttctgtgtgt	gtgaattatg	2340
aatcttttga	agttggcgcc	ggacagggtt	ctgttgctta	caactcatta	gattttgaac	2400
cagagatatt	ctttgccttg	gggtctccaa	ttgctatgtt	tctcaactatt	cgaggagttg	2460
ataggataga	tgagaattac	agccttccta	cctgtaaagg	gttcttcaat	atttatcatc	2520
cgcttgatcc	agtggcatat	agattagaac	ctatgattgt	tccagatttg	gacctaaaag	2580
ctgttctcat	tccacatcac	aaaggcagaa	aaagacttca	tttagaattg	aaagagagtc	2640
tctctcgtat	gggatctgat	ttgaagcagg	gtttttattg	ctctctcaaa	agtgcttggc	2700
agacattaaa	tgagtttgcc	cgtgctcata	cgtcttcaac	ccagttgcaa	gaagaattgg	2760
agaagggtgg	caatcagatc	aaagaagaag	aagaaaagca	agtagttgaa	gcagaaaagg	2820
ttgttgaaag	tccagatttt	tccaaggatg	aggactactt	aggaaagggt	ggaatgttaa	2880
atggaggccg	ccgaattgac	tacgttctcc	aagaaaaacc	aatagagagt	tttaaatgaat	2940
accttttgcg	tcttcagagt	cacttatgct	attgggaatc	tgaagatact	gctctgttac	3000
tacttaaaga	aatttatcga	acaatgaaca	ttagtccaga	acagccccag	cattgatcaa	3060
acttcagttt	tactgtactt	tcttgtctgc	acagaaagtc	ccagtacaac	ttccattgct	3120
gagaaaatcc	tcagaggact	ttcccacttc	gctcctgtga	tggatgacag	aagagtgatt	3180
cattaacaat	tgctcagcca	caattctcgg	atatagggat	tcaaaagaca	ggatacagaa	3240
ctaacacagt	gaaaaaaaatc	agtaccacat	ttggacagta	taggtgagaa	aacataatta	3300
taaaaatgat	gccatgaaaa	attccacaga	tcagtttagt	tgtatagttg	tcaaagttat	3360
atgtgatata	aatgaagaaa	tatttgtagc	atgtaaacgg	ttatttctgt	ttcttaaaaa	3420
gtattgttag	tgggctatta	aacttggatt	tttcttttta	ttaatgcagt	atgttctttt	3480
tattcaagta	tgaacttggt	gagaaactat	agtaatatga	tttttaagag	atttatgttc	3540
tacttaaaa	gtgaattgta	cttctgagct	gccttaatgc	aaggtcattt	atattcgtta	3600
agaggaaata	atcaagatca	ctcatatccc	aactgaatct	gaggttttat	aaatccctca	3660
aacgattgot	gagagcctga	ttgtggaaag	aagtgagatg	caccttattt	tcaagaagtc	3720
ctgggaagcg	ctctcctagc	acgtccattt	ccaggaggag	aagcaagcag	atgagagggt	3780
ttccattttg	tcatccaagg	tagctgtgca	cttgccctgt	tgctgaagtt	ccaataatgt	3840
gaaaacccaa	gtagagggtt	ttttcttctt	ctttttgttt	tctattaatt	tcacttatac	3900
caaagtgttt	gaaagtatga	aatgtgttgc	ttctgagtta	tataaggcta	cttcatgaca	3960
agactgcttt	gtaatatattc	actttgtttt	actacaaatt	cagatcactt	tgttttacta	4020
taaattcaga	ttatccaaat	attttccctaa	tactatgtgg	gaatgctgat	tttcttttgt	4080

-4435/13211-

tacgtagtgg aaacattttg cattgtttac atagttctca tggaacatgg aaatttttga 4140  
aagtgatata tgatacacat tttttgtgta tgtattctaa ttagtgtgaa taaagcagta 4200  
acattaatgc attttttaag cagc 4224

<210> 10972

<211> 1000

<212> PRT

<213> Homo sapiens

<400> 10972

Met	Ala	Glu	Arg	Lys	Pro	Asn	Gly	Gly	Ser	Gly	Gly	Ala	Ser	Thr	Ser	
1				5					10					15		
Ser	Ser	Gly	Thr	Asn	Leu	Leu	Phe	Ser	Ser	Ser	Ala	Thr	Glu	Phe	Ser	
			20					25					30			
Phe	Asn	Val	Pro	Phe	Ile	Pro	Val	Thr	Gln	Ala	Ser	Ala	Ser	Pro	Ala	
		35					40					45				
Ser	Leu	Leu	Leu	Pro	Gly	Glu	Asp	Ser	Thr	Asp	Val	Gly	Glu	Glu	Asp	
	50					55					60					
Ser	Phe	Leu	Gly	Gln	Thr	Ser	Ile	His	Thr	Ser	Ala	Pro	Gln	Thr	Phe	
65					70					75					80	
Ser	Tyr	Phe	Ser	Gln	Val	Ser	Ser	Ser	Ser	Asp	Pro	Phe	Gly	Asn	Ile	
				85					90					95		
Gly	Gln	Ser	Pro	Leu	Thr	Thr	Ala	Ala	Thr	Ser	Val	Gly	Gln	Ser	Gly	
			100					105					110			
Phe	Pro	Lys	Pro	Leu	Thr	Ala	Leu	Pro	Phe	Thr	Thr	Gly	Ser	Gln	Asp	
		115					120					125				
Val	Ser	Asn	Ala	Phe	Ser	Pro	Ser	Ile	Ser	Lys	Ala	Gln	Pro	Gly	Ala	
		130				135					140					
Pro	Pro	Ser	Ser	Leu	Met	Gly	Ile	Asn	Ser	Tyr	Leu	Pro	Ser	Gln	Pro	
145				150						155				160		
Ser	Ser	Leu	Pro	Pro	Ser	Tyr	Phe	Gly	Asn	Gln	Pro	Gln	Gly	Ile	Pro	
			165						170					175		
Gln	Pro	Gly	Tyr	Asn	Pro	Tyr	Arg	His	Thr	Pro	Gly	Ser	Ser	Arg	Ala	
			180					185					190			
Asn	Pro	Tyr	Ile	Ala	Pro	Pro	Gln	Leu	Gln	Gln	Cys	Gln	Thr	Pro	Gly	
		195					200					205				
Pro	Pro	Ala	His	Pro	Pro	Pro	Ser	Gly	Pro	Pro	Val	Gln	Met	Tyr	Gln	
	210					215					220					
Met	Pro	Pro	Gly	Ser	Leu	Pro	Pro	Val	Pro	Ser	Ser	Val	Gln	Ser	Pro	
225				230						235				240		
Ala	Gln	Gln	Gln	Val	Pro	Ala	Arg	Pro	Gly	Ala	Pro	Ser	Val	Gln	Val	
			245						250					255		
Pro	Ser	Pro	Phe	Leu	Leu	Gln	Asn	Gln	Tyr	Glu	Pro	Val	Gln	Pro	His	
			260					265					270			
Trp	Phe	Tyr	Cys	Lys	Glu	Val	Glu	Tyr	Lys	Gln	Leu	Trp	Met	Pro	Phe	
	275					280						285				
Ser	Val	Phe	Asp	Ser	Leu	Asn	Leu	Glu	Glu	Ile	Tyr	Asn	Ser	Val	Gln	

09629469.072800

-4436/13211-

290	295	300
Pro Asp Pro Glu Ser Val Val Leu Gly Thr Asp Gly Gly Arg Tyr Asp		
305	310	315
Val Tyr Leu Tyr Asp Arg Ile Arg Lys Ala Ala Tyr Trp Glu Glu Glu		320
	325	330
Pro Ala Glu Val Arg Arg Cys Thr Trp Phe Tyr Lys Gly Asp Thr Asp		335
	340	345
Ser Arg Phe Ile Pro Tyr Thr Glu Glu Phe Ser Glu Lys Leu Glu Ala		350
	355	360
Glu Tyr Lys Lys Ala Val Thr Thr Asn Gln Trp His Arg Arg Leu Glu		365
	370	375
Phe Pro Ser Gly Glu Thr Ile Val Met His Asn Pro Lys Val Ile Val		380
385	390	395
Gln Phe Gln Pro Ser Val Pro Asp Glu Trp Gly Thr Thr Gln Asp		400
	405	410
Gly Gln Thr Arg Pro Arg Val Val Lys Arg Gly Ile Asp Asp Asn Leu		415
	420	425
Asp Glu Ile Pro Asp Gly Glu Met Pro Gln Val Asp His Leu Val Phe		430
	435	440
Val Val His Gly Ile Gly Pro Val Cys Asp Leu Arg Phe Arg Ser Ile		445
	450	455
Ile Glu Cys Val Asp Asp Phe Arg Val Val Ser Leu Lys Leu Leu Arg		460
465	470	475
Thr His Phe Lys Lys Ser Leu Asp Asp Gly Lys Val Ser Arg Val Glu		480
	485	490
Phe Leu Pro Val His Trp His Ser Ser Leu Gly Gly Asp Ala Thr Gly		495
	500	505
Val Asp Arg Asn Ile Lys Lys Ile Thr Leu Pro Ser Ile Gly Arg Phe		510
	515	520
Arg His Phe Thr Asn Glu Thr Leu Leu Asp Ile Leu Phe Tyr Asn Ser		525
	530	535
Pro Thr Tyr Cys Gln Thr Ile Val Glu Lys Val Gly Met Glu Ile Asn		540
545	550	555
His Leu His Ala Leu Phe Met Ser Arg Asn Pro Asp Phe Lys Gly Gly		560
	565	570
Val Ser Val Ala Gly His Ser Leu Gly Ser Leu Ile Leu Phe Asp Ile		575
	580	585
Leu Ser Asn Gln Lys Asp Leu Asn Leu Ser Lys Cys Pro Gly Pro Leu		590
	595	600
Ala Val Ala Asn Gly Val Val Lys Gln Leu His Phe Gln Glu Lys Gln		605
	610	615
Met Pro Glu Glu Pro Lys Leu Thr Leu Asp Glu Ser Tyr Asp Leu Val		620
625	630	635
Val Glu Asn Glu Glu Val Leu Thr Leu Gln Glu Thr Leu Glu Ala Leu		640
	645	650
Ser Leu Ser Glu Tyr Phe Ser Thr Phe Glu Lys Glu Lys Ile Asp Met		655
	660	665
Glu Ser Leu Leu Met Cys Thr Val Asp Asp Leu Lys Glu Met Gly Ile		670

09629469.072800





<400> 10974

Met	Gly	Ser	Ser	Gln	Ser	Val	Glu	Ile	Pro	Gly	Gly	Gly	Thr	Glu	Gly
1				5					10					15	
Tyr	His	Val	Leu	Arg	Val	Gln	Glu	Asn	Ser	Pro	Gly	His	Arg	Ala	Gly
			20					25					30		
Leu	Glu	Pro	Phe	Phe	Asp	Phe	Ile	Val	Ser	Ile	Asn	Gly	Ser	Arg	Leu
		35					40					45			
Asn	Lys	Asp	Asn	Asp	Thr	Leu	Lys	Asp	Leu	Leu	Lys	Ala	Asn	Val	Glu
	50					55					60				
Lys	Pro	Val	Lys	Met	Leu	Ile	Tyr	Ser	Ser	Lys	Thr	Leu	Glu	Leu	Arg
65					70					75					80
Glu	Thr	Ser	Val	Thr	Pro	Ser	Asn	Leu	Trp	Gly	Gly	Gln	Gly	Leu	Leu
				85					90					95	
Gly	Val	Ser	Ile	Arg	Phe	Cys	Ser	Phe	Asp	Gly	Ala	Asn	Glu	Asn	Val
			100					105					110		
Trp	His	Val	Leu	Glu	Val	Glu	Ser	Asn	Ser	Pro	Ala	Ala	Leu	Ala	Gly
		115					120					125			
Leu	Arg	Pro	His	Ser	Asp	Tyr	Ile	Ile	Gly	Ala	Asp	Thr	Val	Met	Asn
	130					135					140				
Glu	Ser	Glu	Asp	Leu	Phe	Ser	Leu	Ile	Glu	Thr	His	Glu	Ala	Lys	Pro
145					150					155					160
Leu	Lys	Leu	Tyr	Val	Tyr	Asn	Thr	Asp	Thr	Asp	Asn	Cys	Arg	Glu	Val
				165					170					175	
Ile	Ile	Thr	Pro	Asn	Ser	Ala	Trp	Gly	Gly	Glu	Gly	Ser	Leu	Gly	Cys
			180					185					190		
Gly	Ile	Gly	Tyr	Gly	Tyr	Leu	His	Arg	Ile	Pro	Thr	Arg	Pro	Phe	Glu
		195					200					205			
Glu	Gly	Lys	Lys	Ile	Ser	Leu	Pro	Gly	Gln	Met	Ala	Gly	Thr	Pro	Ile
	210					215					220				
Thr	Pro	Leu	Lys	Asp	Gly	Phe	Thr	Glu	Val	Gln	Leu	Ser	Ser	Val	Asn
225					230						235				240
Pro	Pro	Ser	Leu	Ser	Pro	Pro	Gly	Thr	Thr	Gly	Ile	Glu	Gln	Ser	Leu
				245						250				255	
Thr	Gly	Leu	Ser	Ile	Ser	Ser	Thr	Pro	Pro	Ala	Val	Ser	Ser	Val	Leu
			260					265					270		
Ser	Thr	Gly	Val	Pro	Thr	Val	Pro	Leu	Leu	Pro	Pro	Gln	Val	Asn	Gln
		275					280					285			
Ser	Leu	Thr	Ser	Val	Pro	Pro	Met	Asn	Pro	Ala	Thr	Thr	Leu	Pro	Gly
	290					295					300				
Leu	Met	Pro	Leu	Pro	Ala	Gly	Leu	Pro	Asn	Leu	Pro	Asn	Leu	Asn	Leu
305					310					315					320
Asn	Leu	Pro	Ala	Pro	His	Ile	Met	Pro	Gly	Val	Gly	Leu	Pro	Glu	Leu
				325					330					335	
Val	Asn	Pro	Gly	Leu	Pro	Pro	Leu	Pro	Ser	Met	Pro	Pro	Arg	Asn	Leu
			340				345						350		
Pro	Gly	Ile	Ala	Pro	Leu	Pro	Leu	Pro	Ser	Glu	Phe	Leu	Pro	Ser	Phe
		355					360					365			
Pro	Leu	Val	Pro	Glu	Ser	Ser	Ser	Ala	Ala	Ser	Ser	Gly	Glu	Leu	Leu

000220"072800

-4440/13211-

370		375		380
Ser Ser Leu Pro Pro Thr	Ser Asn Ala Pro Ser	Asp Pro Ala Thr Thr		
385		390		400
Thr Ala Lys Ala Asp Ala	Ala Ser Ser Leu Thr	Val Asp Val Thr Pro		
	405	410		415
Pro Thr Ala Lys Ala Pro	Thr Thr Val Glu Asp	Arg Val Gly Asp Phe		
	420	425		430
Thr Pro Val Ser Glu Lys	Pro Val Ser Ala Ala	Val Asp Ala Asn Ala		
	435	440		445
Ser Glu Ser Pro				
450				

<210> 10975  
<211> 1717  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (214).. (564)

<400> 10975  
tgcagctttg ccttctctcc aagagaaggg tccacccaat cagaactcct cttccttttc 60  
attcctggat taaagcactt gtaatcagta accagaaagt tccagagcgg gagagaccgg 120  
aaggcactgg agtgctatcg gacgggtgtc tggggcagag ccaggagggc gagcctcttc 180  
tctccccgcc tgcccttgct cacttcccc tccatgccag gtgctgtggg agcagctggg 240  
cctggccggg gtcggcgggt gaagctatcc gcatgggtgtc tggagcaccg tttctttgct 300  
tcctggatgg gctggatggg ctcccggtgtt cttcaccaat ggcagcgtta ccagcaccaa 360  
tggcagcgtt accagcaaga aggcaaaggc aggagcacat cgagggtggg agccagggct 420  
gtggggtcag gagtcccgtc ccttgccgcg ggaagcctgg ctcagccacc tccagcacac 480  
ttcggctttg tccagcataa aaggcagagc gacgttttca ctgcaggctg tttcccacca 540  
gggcaagtgg gacagggcga gtgctgacgt ctgcaggcat ggtgtgcatt taggggtggg 600  
cggcaccgag ggggcatcat ttggcatagg cgggcccggg ggccactggg ctagatgact 660  
ggctggttgc tgggggcagg tgtcacagcc tctctgagca ccctctaagt ggaggacaga 720  
acattgttgg gaggagtcca ggcataaagt gacataaaca ggcagagaa tgggaccagc 780  
gcacctgaga ggtgatcatt agcctcagca actggatggg acattccgaa gagctcccag 840  
ccaacacaga tggtcactcc agaggctgac atttaaaagg aaggggcccg gccgggcaca 900  
gtggctcacg cctgtaatca caacactttg ggaggctgag gcgggcagat caactgggg 960  
caggagtcca aaaccagcct ggccaacatg gtgaaaccgc atctotgctg aaaatacaaa 1020  
aaattagcca ggcattggtg tgggcacctg taatcccagc tactcaggag gctgaggtag 1080  
gaggatcgct tgaaccagg aagtagaggt tgcagtgagc cgagattgtg ccattgcact 1140  
ccagcctggg cgacaagcga aacttcgtct caaaataaat aaaagtaagg ggcacagggg 1200  
ggggggccca gctcgtgcc cttctgtgtg ggctgcacat ggtgacttcc ttccagagag 1260  
cacagagtgg gaggtaggca aggcgtctcc acagtggaga gcccgacca ctgtctcagc 1320  
ccagaggcca aggtggcac catcaccgag aggtcacacg ggcagatgtg acagggcgct 1380  
tcaccactgg gctcttctc ccagaccat aacccttgtc ttagtattag aaaaacactg 1440  
gcagaccggg cgcagtggct tacacctgta atcgcagcat tttgggaggc cgaggtggga 1500

0952945.072800

-4441/13211-

agattgttca agagcagttc gggcaacatg gtgagacccc atctctacaa aaaaaatttt 1560  
tttttttaat tagccaggcg tgatggcaca tgcctgtggt cctagccact agaggctgag 1620  
gtgggaggat cactggagcc caggaggcca aggcctgcagt gagctgtgat cacaccactg 1680  
cactccagcc ttggcgacaa accaagaccc tgtctcg 1717

<210> 10976

<211> 117

<212> PRT

<213> Homo sapiens

<400> 10976

Met Pro Gly Ala Val Gly Ala Ala Gly Pro Gly Arg Gly Arg Arg Val  
1 5 10 15  
Lys Leu Ser Ala Trp Cys Leu Glu His Arg Phe Phe Ala Ser Trp Met  
20 25 30  
Gly Trp Met Gly Ser Arg Val Leu His Gln Trp Gln Arg Tyr Gln His  
35 40 45  
Gln Trp Gln Arg Tyr Gln Gln Glu Gly Lys Gly Arg Ser Thr Ser Arg  
50 55 60  
Val Gly Ala Arg Ala Val Gly Ser Gly Val Pro Leu Leu Ala Ala Gly  
65 70 75 80  
Ser Leu Ala Gln Pro Pro Pro Ala His Phe Gly Phe Val Gln His Lys  
85 90 95  
Arg Gln Ser Asp Val Phe Thr Ala Gly Cys Phe Pro Pro Gly Gln Val  
100 105 110  
Gly Gln Gly Glu Cys  
115

<210> 10977

<211> 3144

<212> DNA

<213> Homo sapiens

<400> 10977

ttaatggtca gaaacaatat ttaaaaaaaaa aatagccaac aacttcccaa atttgatttt 60  
tttaaaaatt gtgtatctaa gaacctcaat gaactccaag taggacaaaa tttttaaaaa 120  
cccacactta gacatatcag tcaaaccgtt aaaagacaca gaatctttta aggagcaaag 180  
aaaattggta catcacatgt aaggagtctc aataagatta gcaactgact tcttatcaga 240  
aaccatgaag gccagagggc aatgggatga catattcaaa gtgatgaaag aaagaactgt 300  
aaaccaagat ttctatatcc agcaaaactg ttattcaata atgaaaaaat gagataccac 360  
ttcatttgta ctatgatgag tataattttt taaatcaaga cagaaaagtg ttggtgagga 420  
tgaaaagaaa ctggaacctt cgtacatggc tgatgggaat gtaaaacgga gaagtcacta 480  
tggaaacacag tttggtagt cctcaaaatc acagaagtac tatatgatcc aaggctgggc 540  
acagtggctc acacctgtaa tcctaacact ttaagggcca aggtgggaag atcacttgag 600  
ctcaggagtt caagaccagc ttggacaaca tggcaaaacc ccatctccac aaaaaataca 660  
aaaattatcc aggtatggtg gtatgcacct atagtcccag ctactttgtg ggagctaagt 720

09629469.072300



```

caggaggatt gcttgagccc aggagggtcaa ggctgcagtg agccatgttc acaccacagt 780
gctccagcct aggtgatgac aaagtgagac cctgtctcaa aaaaaaaagc ctgggcacag 840
tggcttatgc ctgtaatccc agcacttttg gaggccaagg cagcaaataca cttgaggcca 900
ggagttccag accagcctgg ccaacatggt aaaacccccat ttctactaaa aatacaaaaa 960
ttagccagtc atgtttggcac atgcctgtta tccaagctac acaggaggct aaggcataag 1020
aattgcttga acccagaggc agagggttga gtgagccgag atcataccac tgcactctag 1080
cctgggtgat acagtgagac tccatctcaa aaaacaaaac aaaagaagta ttatgtgatc 1140
cagcaattcc actccatggt atagatccaa aagaattgaa atctggggct taaacagata 1200
cttgtacacc attggtttgt aacattattc caacagccaa aaggaggcaa aaccacaaac 1260
gtcaccaaca gatgaataga taacgtgtta cataggtacc atggaatggt attcagtcac 1320
aagaaggagt aagatctcat acatgctatt gtatgtatga aggaaagtgt aaaacattaa 1380
gctaagtga atgaggcaga cacaaaagga caaatattgt tatgattcca cttatatgag 1440
gtacctagaa taggcaaatt tatagaggct gaaaatagaa tggaggatat cagggggttag 1500
tggtggaagt gaggaattat tgttttagtg gtacagattt tctgtttggg atgataaaaag 1560
ttctagaaac tgataatggt gatggttgta caacattttg aatgtattta atgcattgaa 1620
ttacacactt ttgaatgttt aaaattgttt tatgtatat ttgcaataat tttaaaacaa 1680
aaaattcctc agaaggccag gcacagtagc tcacgcctgt aatcccagca ctttgggagg 1740
ctgaggcagg cagatcatga ggtcaggaga ccgaggccat cttgggctaac acggtgaaac 1800
cccgctctcta ctagaaatac aagaagttag ccaggcatgg tggcaggcac ctgtagtccc 1860
agctatttgg gaggctgata caggagaatg gcatgaaccc gggaggcgga gcttgcaatg 1920
agctgagatc acaccactgc actccagcct gggcaacaga gcaagactct gcctcaaatt 1980
aaaaaaaaaa aaattcttca ggaattcaca ataaactatt agaaacgaaa aacaagttca 2040
gcaatgtttt aggatacaag atcaatatac acaaatctat tgtatttcta tacactaata 2100
atgaagaatc caataatgaa attaagcaaa cacttcagtt tacaataata tcaaaagaac 2160
aaaatactta ggaataaaact gaacaaaaag tctaagactt gtacaatgaa aaatacaaaa 2220
catcatcaaa agaaattaaa gacctaaata agatacatct gtcttcatgg attagaagac 2280
aagatggcat gattgccaaa aatgataaac agattcaatg caatccctat caaaatccca 2340
gttggctatt ctaaaattta tatggaaatc ctaaaattca catggaaata taaggtaccc 2400
agaacagcta aaacaatctt gaaaaataac aaagttggag gaccatact tctctatgtc 2460
aaaacttact aagctacact aatcaactca ggggtgttcag gcatagagac agacatatag 2520
atgaacagaa ctgagagtct ggaaatctaa tcaactgatt ttcttttttt tgttttgttt 2580
tacatttaga gacgggtct cactctgtca ccaggctgg agttcacccct ggagtgtaat 2640
catggctcaa ggcaaacttg aactcctggg ctcaactccc acctcagcct cccaaagtgc 2700
tgggatttca gatgtgagcc accacgccc gctacaatc agttgatttt tcaacaaaga 2760
ttccatgata atccaatgaa gcaaagaata gtcttttttag catgtggtgc tggaataaat 2820
agaccaggca atggtttcta atataacact aaaagtacaa gtaacaacaa caacaaaaca 2880
actggacttc ataaaaatta aaaacttctg tgcttttcaa gggacactat caagaaagt 2940
acatgaaagc ccacagaatg ggagaaaata cttgcaaata acctatccag tatatatcag 3000
gaattcttac aactaaacaa taaaaagaca accaaattta attataggca aagaatctga 3060
acagacatta ctccaaataa gacatgcaga tgtccaataa gcacatgaaa ataccctcaa 3120
caaaattagc catcagggaa atgc 3144

```

<210> 10978  
 <211> 1805  
 <212> DNA  
 <213> Homo sapiens

<220>  
<221> CDS  
<222> (167).. (1804)

<400> 10978

```

gtctagcggg atcgccttgct tggtaaccog gagggagaga ttggaaaccg cggagtttcc 60
tttgggaggc tgcggccagc cggggctgac ttgttatgtt gggctccgga ggccgttaag 120
agccgagaga gacatgaggt gtctctgaag ccgggtcgcc tgggccatga agaagatttt 180
tagtaagaag ggcgagtcgc ccttgggctc ctgcgcggc cggcggagga gcagcgcggg 240
aggcgggggc gagccggggg agggcgccta ctgcagccc ggctaccacg tccgagaccg 300
agatctcggc aagatccaca aagctgccag cgcgggtaat gtggcgaag tgcagcagat 360
ccttttgctc aggaagaatg gcttgaacga tagagacaag atgaacagga cggctctaca 420
tttggcctgt gccaatggtc atccagaagt agtaactctc ctggtggaca gaaaatgcc 480
gtcaaatgtc tgtgacaacg aaaacaggac agctctgatg aaggctgtac aatgccagga 540
agagaaatgt gcaactattc tgctagaaca tggctgatg ccaaatcttg cggatgtcca 600
tggcaacact gctcttctact atgctgtcta taatgaggac atatcagtag caacaaagct 660
gcttttgtat gatgcaaata ttgaagcaaa aaacaaggat gacctcacac cacttttact 720
tgcagtaagt ggaaaaaagc agcaaatggt ggaattttta ataaagaaaa aagcaaatgt 780
aaatgcagta gataagttgg aaagcagtca ccaactaatt tcagaatata aagaagaaag 840
gatacctaaa cattcttctc aaaatagtaa ttcagtggat gaaagctctg aagactcctt 900
aagcaggctt tctggcaaac cgggtgttga tgattcatgg cctacctcag atgacgaaga 960
cctcaatttt gatactaaga atgtcccaa accaagctta gcaaagctaa tgactgcttc 1020
tcagcaatcc aggaaaaatt tagaagcaac atatggcact gtgagaacag gaaatagaac 1080
tttgtttgag gatagagatt ccgatagtca agatgaagtt gtgggtgaaa gccttcctac 1140
aacatcaatc aaagtccagt gcttttctca tctacctat caatcacctg accttcttcc 1200
aaaaccttcc cacaagtcgt tagcaaacc tggctttatg aaggaagaac caacaaagcc 1260
aggoattgca aaaaaagaaa atggtattga tattattgaa agtgctccac tagagcaaac 1320
aaataatgac aatttgactt atgttgatga agtgcacaaa aataatagaa gtgatatgat 1380
gtccgcatta ggattaggac aagaggaaga tatagaatca ccttgggatt ctgagagtat 1440
ctctgagaat tttccacaga agtatgttga tcttttagct ggggctgcag acggaagaa 1500
aaaaaatata ggaaatgaac aagcagaaga tgtgttttat ataacttctt gcatgagtgg 1560
atcaagaaac tttaagatgg ctaaactaga ggatacaaga aatgtaggca tgccagtagc 1620
ccacatggag tctcctgaga gatattctca cttgaagcct accattgaaa tgaaagattc 1680
tgttccaaat aaagcaggag gaatgaagga tgtacaaaca tccaaagcag ctgaacatga 1740
cttagaagta gcatcagaag aagagcaaga aagggaaggg agtgaaaata accagccaca 1800
ggttg                                     1805

```

<210> 10979  
<211> 546  
<212> PRT  
<213> Homo sapiens

<400> 10979

```

Met Lys Lys Ile Phe Ser Lys Lys Gly Glu Ser Pro Leu Gly Ser Phe
  1           5           10           15
Ala Arg Arg Arg Ser Ser Ala Gly Gly Gly Glu Pro Gly Glu
          20           25           30

```

-4444/13211-

Gly Ala Tyr Ser Gln Pro Gly Tyr His Val Arg Asp Arg Asp Leu Gly  
35 40 45  
Lys Ile His Lys Ala Ala Ser Ala Gly Asn Val Ala Lys Val Gln Gln  
50 55 60  
Ile Leu Leu Leu Arg Lys Asn Gly Leu Asn Asp Arg Asp Lys Met Asn  
65 70 75 80  
Arg Thr Ala Leu His Leu Ala Cys Ala Asn Gly His Pro Glu Val Val  
85 90 95  
Thr Leu Leu Val Asp Arg Lys Cys Gln Leu Asn Val Cys Asp Asn Glu  
100 105 110  
Asn Arg Thr Ala Leu Met Lys Ala Val Gln Cys Gln Glu Lys Cys  
115 120 125  
Ala Thr Ile Leu Leu Glu His Gly Ala Asp Pro Asn Leu Ala Asp Val  
130 135 140  
His Gly Asn Thr Ala Leu His Tyr Ala Val Tyr Asn Glu Asp Ile Ser  
145 150 155 160  
Val Ala Thr Lys Leu Leu Leu Tyr Asp Ala Asn Ile Glu Ala Lys Asn  
165 170 175  
Lys Asp Asp Leu Thr Pro Leu Leu Leu Ala Val Ser Gly Lys Lys Gln  
180 185 190  
Gln Met Val Glu Phe Leu Ile Lys Lys Lys Ala Asn Val Asn Ala Val  
195 200 205  
Asp Lys Leu Glu Ser Ser His Gln Leu Ile Ser Glu Tyr Lys Glu Glu  
210 215 220  
Arg Ile Pro Lys His Ser Ser Gln Asn Ser Asn Ser Val Asp Glu Ser  
225 230 235 240  
Ser Glu Asp Ser Leu Ser Arg Leu Ser Gly Lys Pro Gly Val Asp Asp  
245 250 255  
Ser Trp Pro Thr Ser Asp Asp Glu Asp Leu Asn Phe Asp Thr Lys Asn  
260 265 270  
Val Pro Lys Pro Ser Leu Ala Lys Leu Met Thr Ala Ser Gln Gln Ser  
275 280 285  
Arg Lys Asn Leu Glu Ala Thr Tyr Gly Thr Val Arg Thr Gly Asn Arg  
290 295 300  
Thr Leu Phe Glu Asp Arg Asp Ser Asp Ser Gln Asp Glu Val Val Val  
305 310 315 320  
Glu Ser Leu Pro Thr Thr Ser Ile Lys Val Gln Cys Phe Ser His Pro  
325 330 335  
Thr Tyr Gln Ser Pro Asp Leu Leu Pro Lys Pro Ser His Lys Ser Leu  
340 345 350  
Ala Asn Pro Gly Leu Met Lys Glu Glu Pro Thr Lys Pro Gly Ile Ala  
355 360 365  
Lys Lys Glu Asn Gly Ile Asp Ile Ile Glu Ser Ala Pro Leu Glu Gln  
370 375 380  
Thr Asn Asn Asp Asn Leu Thr Tyr Val Asp Glu Val His Lys Asn Asn  
385 390 395 400  
Arg Ser Asp Met Met Ser Ala Leu Gly Leu Gly Gln Glu Glu Asp Ile  
405 410 415

09629469.072300

-4445/13211-

Glu Ser Pro Trp Asp Ser Glu Ser Ile Ser Glu Asn Phe Pro Gln Lys  
420 425 430  
Tyr Val Asp Pro Leu Ala Gly Ala Ala Asp Gly Lys Glu Lys Asn Ile  
435 440 445  
Gly Asn Glu Gln Ala Glu Asp Val Phe Tyr Ile Pro Ser Cys Met Ser  
450 455 460  
Gly Ser Arg Asn Phe Lys Met Ala Lys Leu Glu Asp Thr Arg Asn Val  
465 470 475 480  
Gly Met Pro Val Ala His Met Glu Ser Pro Glu Arg Tyr Leu His Leu  
485 490 495  
Lys Pro Thr Ile Glu Met Lys Asp Ser Val Pro Asn Lys Ala Gly Gly  
500 505 510  
Met Lys Asp Val Gln Thr Ser Lys Ala Ala Glu His Asp Leu Glu Val  
515 520 525  
Ala Ser Glu Glu Glu Gln Glu Arg Glu Gly Ser Glu Asn Asn Gln Pro  
530 535 540  
Gln Val  
545

<210> 10980  
<211> 2826  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (18).. (1307)

<400> 10980  
gatgtcatgc aggcaagatg gcggaagggg aggacgtggg atggtggcgg agctggctgc 60  
agcagagcta ccaagcagtc aaagagaagt cctctgaagc cttggagttt atgaagcggg 120  
acctgacgga gtttaccag gtggtgcagc atgacacggc ctgtaccatc gcagccacgg 180  
ccagcgtggt caaggagaag ctggctacgg aaggctcctc aggagcaaca gagaagatga 240  
agaaagggtt atctgacttc ctagggggtga tctcagacac ctttgccccct tcgccagaca 300  
aaaccatcga ctgcgatgtc atcacccctga tgggcacacc gtctggcaca gctgagccct 360  
atgatggcac caaggctcgc ctctatagcc tgcagtogga ccagcaacc tactgtaatg 420  
aaccagatgg gcccccgaa ttgtttgacg cctggctttc ccagttctgc ttggaggaga 480  
agaaggggga gatctcagag ctccctttag gcagcccctc catccgggcc ctctacacca 540  
agatggttcc agcagctgtt tccattcag aattctggca tcggtatttc tataaagtcc 600  
atcagttaga gcaggagcag gcccggaggg acgccctgaa gcagcgggcg gaacagagca 660  
tctctgaaga gcccggctgg gaggaggagg aagaggagct catgggcatt tcaccatat 720  
ctccaaaaga ggcaaagggt cctgtggcca aaatttctac attccctgaa ggagaacctg 780  
gccccagag cccctgtgaa gagaatctgg tgacttcagt tgagcccca gcagaggtga 840  
ctccatcaga gagcagtgag agcatctccc tcgtgacaca gatcgccaac ccggccactg 900  
cacctgaggc acgagtgcta cccaaggacc tgtcccaaaa gctgctagag gcatccttgg 960  
aggaacaggg cctggctgtg gatgtgggtg agactggacc ctcacccccct attcactcca 1020  
agccccctaac gcctgctggc cacaccggcg gccagagcc caggcctcca gccagagtag 1080

00529469.072800

```

agactctgag ggaggaggcg cccacagact tacgggtgtt tgagctgaac tcggatagtg 1140
ggaagtctac accctccaac aatggaaaga aaggctcaag cacggacatc agtgaggact 1200
gggagaaaga ctttgacttg gacatgactg aagaggaggt gcagatggca ctttccaaag 1260
tggatgcctc cggggagctg gaagatgtag agtgggagga ctgggagtga gggagccaga 1320
gggagcagct cccccaccca tggcatctct cgccctccctc gctcgtctca gccagccct 1380
ggaagactga gaatgttccc ccaaattctcc tctgccaacc agagctctgg gcacagattc 1440
tgggtggctcc ctgctggccc tcttgggcct ctgtcacacac ctgggaaggg gctctctaaa 1500
tcccggccag aaactctgac ttgtgccaac aataggatga cccaaggagg aggaaacct 1560
tcctcctcac cagaagagcc tgtgtttttc tgtgaacac ccactgttcc tgaggactcc 1620
tgctgggaag tccaaggga tagttctagc ctttctgcct gtgtagacag aagctaaacc 1680
accagtctct ctcgaggaga gctgagacaa catactctgt ccatacataa gcaggcagg 1740
agggccatgc cacctaccct tggctaaaca gggacagtga acacattttg gttcctatcc 1800
cagtgggtaa gaggcactta tctctgggaa atttgccctc cttgggactc tccccctccc 1860
aggcattttc cattcctgga aaggctcctt tggggttcag aatccagaga ccaaaccctg 1920
acccacctcc ttcccttccct ccagcccacg ctgggtctgtc cccatgcctt cccagggctt 1980
cttcatgtca gatgcaccca agtccttagc ccagctgtgc cacctgcagg agttcgtctc 2040
tgcgtttctt cccctcccca agaaggagg gggctacttc aggcccttct gtgtgttgcc 2100
tggcaggata ctttgtccaa ccagctaccc acctcaactc ccctgtagtt taggacacaa 2160
aacagctacc agcggtagac agcggtagac aaagccgagt acttacaact ctggttaagcc 2220
tagcttctcc gcctcagccc ttctgcttct ggaagggtta tcctgggggt gaacttgaaa 2280
ctctcatcag gcttctgcaa aagctcttct tcctgaagac agaccagcc tttgtgctct 2340
caccctccac tctggtaaag ctgcacctct gggggaatga ggggctgcag gaatctcttg 2400
agagcctggg gcttcacgat gctgctctgg tgattcttgt acctaatctg gtgtgctcac 2460
caatgagtga aagggatcgt gggtcaggga caccagagaga gtgaggtcac ttccacttca 2520
aaccttcagt gaggggtgg gatggagaga atgctgaatc ttttttttga cgggatgggg 2580
tttttctctt tgtaattatt tctttagttt aattaacctt ttggttgttt gtgcaattatt 2640
atatatttta aattataatg catctcccca gagtattttg tagctgggaa aagaaaaaag 2700
gaaaaaaaga aaaaaagatt ctaacagctg ttagttttat aattaaaaaa gaaagaaaaa 2760
agaactttgt cctgaacctt ttacagactt gccgttaaca goattaaagt gattcacccg 2820
aagctg 2826

```

<210> 10981  
 <211> 430  
 <212> PRT  
 <213> Homo sapiens

<400> 10981  
 Met Ala Glu Gly Glu Asp Val Gly Trp Trp Arg Ser Trp Leu Gln Gln  
 1 5 10 15  
 Ser Tyr Gln Ala Val Lys Glu Lys Ser Ser Glu Ala Leu Glu Phe Met  
 20 25 30  
 Lys Arg Asp Leu Thr Glu Phe Thr Gln Val Val Gln His Asp Thr Ala  
 35 40 45  
 Cys Thr Ile Ala Ala Thr Ala Ser Val Val Lys Glu Lys Leu Ala Thr  
 50 55 60  
 Glu Gly Ser Ser Gly Ala Thr Glu Lys Met Lys Lys Gly Leu Ser Asp  
 65 70 75 80

09629469.072300

-4447/13211-

Phe Leu Gly Val Ile Ser Asp Thr Phe Ala Pro Ser Pro Asp Lys Thr  
85 90 95  
Ile Asp Cys Asp Val Ile Thr Leu Met Gly Thr Pro Ser Gly Thr Ala  
100 105 110  
Glu Pro Tyr Asp Gly Thr Lys Ala Arg Leu Tyr Ser Leu Gln Ser Asp  
115 120 125  
Pro Ala Thr Tyr Cys Asn Glu Pro Asp Gly Pro Pro Glu Leu Phe Asp  
130 135 140  
Ala Trp Leu Ser Gln Phe Cys Leu Glu Glu Lys Lys Gly Glu Ile Ser  
145 150 155 160  
Glu Leu Leu Val Gly Ser Pro Ser Ile Arg Ala Leu Tyr Thr Lys Met  
165 170 175  
Val Pro Ala Ala Val Ser His Ser Glu Phe Trp His Arg Tyr Phe Tyr  
180 185 190  
Lys Val His Gln Leu Glu Gln Glu Gln Ala Arg Arg Asp Ala Leu Lys  
195 200 205  
Gln Arg Ala Glu Gln Ser Ile Ser Glu Glu Pro Gly Trp Glu Glu Glu  
210 215 220  
Glu Glu Glu Leu Met Gly Ile Ser Pro Ile Ser Pro Lys Glu Ala Lys  
225 230 235 240  
Val Pro Val Ala Lys Ile Ser Thr Phe Pro Glu Gly Glu Pro Gly Pro  
245 250 255  
Gln Ser Pro Cys Glu Glu Asn Leu Val Thr Ser Val Glu Pro Pro Ala  
260 265 270  
Glu Val Thr Pro Ser Glu Ser Ser Glu Ser Ile Ser Leu Val Thr Gln  
275 280 285  
Ile Ala Asn Pro Ala Thr Ala Pro Glu Ala Arg Val Leu Pro Lys Asp  
290 295 300  
Leu Ser Gln Lys Leu Leu Glu Ala Ser Leu Glu Glu Gln Gly Leu Ala  
305 310 315 320  
Val Asp Val Gly Glu Thr Gly Pro Ser Pro Pro Ile His Ser Lys Pro  
325 330 335  
Leu Thr Pro Ala Gly His Thr Gly Gly Pro Glu Pro Arg Pro Pro Ala  
340 345 350  
Arg Val Glu Thr Leu Arg Glu Glu Ala Pro Thr Asp Leu Arg Val Phe  
355 360 365  
Glu Leu Asn Ser Asp Ser Gly Lys Ser Thr Pro Ser Asn Asn Gly Lys  
370 375 380  
Lys Gly Ser Ser Thr Asp Ile Ser Glu Asp Trp Glu Lys Asp Phe Asp  
385 390 395 400  
Leu Asp Met Thr Glu Glu Glu Val Gln Met Ala Leu Ser Lys Val Asp  
405 410 415  
Ala Ser Gly Glu Leu Glu Asp Val Glu Trp Glu Asp Trp Glu  
420 425 430

<210> 10982

<211> 3410

09629469.072300

<212> DNA

<213> Homo sapiens

<400> 10982

tgtacattat	gtatgataat	gtatgcacat	tttcttattt	ttaacttcag	ggccatattg	60
ggtgctgttg	tcggagcagg	tgaaaagtct	gagtgtgttt	aatttgcttg	acaaacatta	120
ggctggggct	tgtcaagtgg	agtatagtga	atgccaatct	ttattttactc	cttattgatt	180
accccaaaact	ctaaacatct	gcataccttg	tataaatttc	cacttatgaa	gctgaaattg	240
atgaatgaaa	gcccattgcca	tttcccgggg	attggtacat	ttcaggagtg	aatcacaaac	300
aattattgtc	ataggactat	tgaaatataa	agggagagct	gggagggagg	gcccagcgcc	360
ctgctctcac	gattgattca	ggcaggagcc	tgttccgaac	cgtgtgtgcc	agattagccc	420
gtgacttcat	gacgagcatg	ggaagtatgc	taattaacgg	ctggctgccg	gcgccctccc	480
ctaaaatggg	aaaatacata	tttggggggt	atgatttgat	ggcgacgttc	aagtgcgttg	540
tcacagattg	ggaaagcgtt	ttcatcaagc	tggcttggtt	tgccctggtt	cgatgtggtt	600
taagcagcag	tcttattagg	ttaaccctgc	tcagtgaag	caagcaggct	tactttctga	660
ttagataaaa	tgtgcaggca	taatgggaaa	agtcattaag	tgatgaatgt	actcttagac	720
atggactaat	catactctat	ttatgtagct	ggttcgtagc	tatgaccctc	tcgtgtgatt	780
cttgtgctat	atttatggtc	agtgggtgatt	atcattaatt	tgtaacgcac	ataaacattc	840
atgcaacacg	gctcactctc	tgagccgtca	caggaggcct	cattcccggg	ctggacccat	900
ggtgttgctc	acctcacagg	tgtccggcat	ccgtggcacc	aaaatcccca	aataagtggg	960
aatcgccaaa	cagctcattg	cacttggctc	ctatgggttc	aatgacaaca	gttttatatg	1020
gaaattgagt	tcatacaaat	aattattcac	tgctttttacg	ggagtgggtt	ccaaagcagg	1080
ggcatgtgca	cactgtgaag	acctaccctt	ctcctgtttc	cttgggggca	ccccagcacc	1140
gcctcctggc	cccaggtagt	ttcataaggg	ctccaaagag	gaaccgcact	aagagccccg	1200
ctactcatca	gttgagcctt	gggaccgggg	gagagaccgc	ggatcatcct	gctcagtcaa	1260
gtttacttga	ctctgtcatt	tcttgccgct	gctgagaaat	gcttcccctg	ccagtgtccc	1320
agccctgggt	cctcaggcag	gccgttggcc	agagagaggc	gggcccacat	atctccctta	1380
acagcctgat	tggctgcagg	tcagctgaga	ggaaaagggt	tgagattggg	acgggttttag	1440
ccaggaatct	cggaatttcc	cggataattg	ggggagagtg	acgccaagct	cttcctgtca	1500
cttttagata	tttctgaact	acctctgtaa	tgaattggaa	tgccctttac	cagggcctca	1560
gagacgccgt	gagccactga	agtttatgct	ctccaattat	ccagaaggat	tctcaaaagt	1620
gggctgtggg	cctctgagct	ctgttgtgct	tgtaatacat	ggcatcacct	ccttgggttg	1680
cagaccaccg	ggccacggat	ccacaaagga	tggcgcggcc	tgctggggac	cctgtatttg	1740
tacagacatc	actgcaagtc	tgactcagag	ctaattgcag	atagttcatt	taactctgac	1800
ttctgcaaaa	atggatgtaa	atatggaggg	aaacacacaa	cagtcgtttt	cgtgaagaac	1860
ggccttagga	caaagacaaa	gaataaaaaa	tgtcttttgt	atttacttga	aacaaatgaa	1920
tggtatcagg	tgaaaaatat	ctgtctgtgc	ttgttcagat	ttaaggccta	caaatttgca	1980
ccttattcca	atttcctgca	tgacggggag	gaagtgcgaa	tagcttattc	agaggcagat	2040
taatgcaaaa	gagctgagag	ggcacataaa	tctacaagta	gtgacttgta	ccatcatgta	2100
ggtgtaatga	ttatcaaact	ggaatcaggg	ctcagagtat	cagcttagca	cagagaaaat	2160
ttgcttgatg	ggagagtagt	aaagtcatgc	tataatatat	ccacatactg	tgactaaatt	2220
ttatagttca	tgaagcatat	tagtattaca	ctatatcccg	gtacattcaa	aaggtgattt	2280
ccatttagat	gctcattttt	catgaagata	aatatgacat	gaatcataat	ttccctgaag	2340
taaataattac	aaataataaa	atactcaggc	aagcaagttg	aggaatgaca	gtaatgtttt	2400
ccatttgat	ggtgaagtggc	gaaccttgtg	gcctatcaag	taacaaattg	aatgtttaat	2460
ctttctccat	gcagattgag	gatggcaaag	tagcgoggto	tcacaacaaa	ttgagagttc	2520
tctggtgact	cgtggagtat	cagctctttt	gccttcagag	gccaatagag	ggtgtcagca	2580
gagctttgtc	aaaatagatc	acgagcatga	agttgtaaaa	ttgcaattta	caacaaaaag	2640

09529469.072300

actttgggat	aacgggcaaa	tcttaggcat	gctaaatata	tagcaaatat	ttagagaggc	2700
tttgtaagca	atttaaatat	tgtagggga	agttgcttag	catctgtgga	gcatcccagc	2760
ggtaaagaaa	gaaatgtatc	ctatcaaatg	gtaaatagtc	tattocaaat	gataaaaaata	2820
ttcttttagat	actagctgat	cgagttaaac	taattgggtt	acgggtgcctt	aaagccgtgc	2880
ccagtattag	gctggcggag	gccccgctgt	gcacgtcaca	ccttatgggtg	ttaatggcgc	2940
tcctttgtgct	acatcatctt	tgccgatttg	ccctcacatt	ttggagtccc	tcggggcctt	3000
ggggatcctg	gtgcagcaac	agcttgtttc	cctgggatct	cgatgctggc	ctggagccgg	3060
cctgccgcct	ggggtctcgg	cagtccaggc	cacagttcag	ggtcacttgt	accacacagc	3120
ccgggggatgt	tccttctgct	gaaggttctg	ttgtatatta	attttaagtt	gcagtgtctg	3180
cactgcaaga	tgacaccact	cgcattttga	ttaaggattt	tatacatgaa	aaaattttca	3240
ttatctgagt	tcccagagac	ctccctgatt	ggttgccctgt	ctgaccacaca	gctgtgtctc	3300
caagcgtcgg	ggtaaggact	cgggcacatg	agtgtgccct	gcactacctc	tggtacatga	3360
acaattaatg	gggcttttga	ctctcaggga	agtcaagact	cttcataacc		3410

<210> 10983

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 10983

attcagaatg	aatagaatgt	acactaacat	gctatataaa	atgttaaagt	ctgatgctgt	60
gaaagcaatc	tagtgctata	tttctacctc	ctcatttgtc	ttaattatgt	ggtaagtggg	120
attatgatga	gtaactggag	gggcttagaa	acaaaaactg	gatgaaagag	tatgcatgaa	180
gaaaagcttc	tttgataaat	gtggagtctc	tcattataaa	tatatattca	tgaattcaca	240
gataagtact	taaagaacag	acagtttact	tggcctaaaa	atattttgat	gtttactcaa	300
aaagtacctc	ttcaggtcct	gagaacatgg	aaaagaattg	agtgccttta	aatacttttt	360
agaaagtaat	cataaaagta	aattgaatgt	caaacctatt	tggcttctgt	tttgtgaacc	420
tttgaactat	atgtatgtgt	ataagggtat	acacatacat	atatggcata	taacaagtgt	480
acacatatatac	acataacaag	tgtagaagta	tatattacat	acatacactc	actctgtctg	540
gtataggota	attttgaaga	actcccataa	gtttctgctg	cttctcccat	aactgctgcc	600
accaccatca	gaattcataa	tcaaacctaa	cctttttgtt	tggggcacca	aatctgaaga	660
caaaattaat	ttgcaccagt	aaacttcaag	ctgctttctt	tcttgaaaac	taaactgtta	720
acgtataatg	tctgtttgga	tactgttcca	aattgttgat	tgcattgtgt	taatgttgca	780
ttagagcact	ttgcaattgc	ataattcatt	aattgtttgt	gagcttgcac	ttgtgagtta	840
ttggatgato	agactgaatt	ttgtcaagta	tcacattgta	catcttgcct	agatgtcgat	900
gactgcaagt	aataatacag	tttataatga	aactatctac	aattcttgtt	ttagcacatc	960
tgttatccgt	aaaacacctg	taaccagctt	ttttaattta	ttattttgaat	tttaggatag	1020
cgaatcacta	atttttagtt	gctgaggttg	gcattttagt	gattattaag	caottctgtc	1080
agtctttgaa	aaaagaacgt	attttttgtg	ctttgaagat	ctctgaagaa	tttcttttat	1140
aatagaatgg	gcatgtattg	taacagtttt	atgtcaaatg	atctgtgctg	tagaaaaaca	1200
ttaacccttg	ttcaaaaaag	aaatggataa	acttggcctt	tctaagtggg	aagaatgacc	1260
tgctactata	atatactgta	tgtttacatt	ttattttaaat	ttaatctctt	atgtataggg	1320
tgataacctt	ccccagaaaac	aacagtgtat	gcgattgttt	tctagaaact	tcctttaaagt	1380
gccacatttg	gcagtacaaa	tgagtctgag	tgtaatagcc	cagagattta	tatatagttg	1440
aatgtctaaa	atggtaaaaat	gtgccactgt	gtcaagttac	agtggccttat	gtttttcata	1500
gtaattcaaa	tgaacttcct	atttttgata	gtaaattgtca	tttaatatga	tacttgccat	1560
ttgagcctca	ctgcaaaatt	agtgcagagg	agaaaaacaat	ttttaatgta	atcttgattt	1620

09629469-072800



tacctcatat actgtacatt ccaaaaaactc taaacttttt aaagattata gatacactac 1680  
 caaacatata accttaaaat tgtataaggc tgaatgaact tcatacaaat gaaaaaaatc 1740  
 tcataaaaaat acataaaacta tgtagcaaaa gtatctgcaa aatccatgga aaataaaagt 1800  
 tgtatcattc tttttg 1816

<210> 10984  
 <211> 1394  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (337).. (867)

<400> 10984  
 gacatcgacc tagtggtggt tgggaagtgg gagaacctac ccctctggac tctggaagaa 60  
 gctcttcgga aacacaaagt cgcagatgag gattcgggtga aagttttaga caaagcaact 120  
 gtacctatta ttaaattaac agattctttt actgaagtga aagttgatata cagctttaat 180  
 gtacagaatg gcgtgagagc agctgacctc atcaaagatt ttaccaagaa atatcctgta 240  
 ttgccatact tggtttttagt attgaaacaa ttcttattgc agagggacct taatgaagta 300  
 ttacaggtg gaattggttc ttatagtctc tttttaatgg cagtcagttt cttcagtta 360  
 catcccaggg aagatgcttg catccccaat acaactatg gtgttctctt aatagaattt 420  
 ttgaattat atggacgaca cttcaattat ttaaagactg gcatccggat aaaggatggt 480  
 ggttcatatg tggccaaaga tgaagtacag aaaaatatgc tagatggcta caggccatca 540  
 atgctttata tcgaagatcc tttaacaacca ggtaacgatg ttggaaggag ttcatatggg 600  
 gccatgcaag tgaagcaggc ctttgattat gcctacgttg ttttgagtca tgctgtatca 660  
 ccaatagcaa agtactatcc caacaatgaa acagaaagca tactaggtag aataattaga 720  
 gtaacagatg aagttgccac atatagagat tggatatcaa agcagtgggg cttgaagaat 780  
 agacctgagc cttcatgcaa tggaaatgaa actcttcato aggtccagtg tcgtcctctt 840  
 ctgccacaca gtccagctct agtgacgtag attccgatgc aacaccatgc aaaaccctga 900  
 aacagctgct ttgccgtccg tccactggga accgagtagg gtgcgaagat gtatccttgg 960  
 agtctctca ggcagttggg aaaatgcaaa gcacccaaac cactaacaca tccaacagca 1020  
 ccaacaaatc tcagcatgga tcagcaaggc tctttcgttc ttccagcaaa ggcttccaag 1080  
 gtacaactca aacaagccat ggttccttga tgacaaacaa acaacatcaa ggcaaatcca 1140  
 ataatacagta ttaccatggc aaaaagagga aacacaagag ggacgcgccc ctctcagacc 1200  
 tctgtagata gtcagcgctg cgcggtggac tgtcttctct gtgcaatgat ctcatgctca 1260  
 ggacagttgc gcagggactc ctgggagata ttcaggagcc tcacactgtt cagacgttga 1320  
 cttagcaact gcgttttttc ccagctcgcc acagaatgga tcatgaagac tgacaactgc 1380  
 aaaaaaaca aaac 1394

<210> 10985  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<400> 10985

09629469.072300

Met Ala Val Ser Phe Leu Gln Leu His Pro Arg Glu Asp Ala Cys Ile  
 1 5 10 15  
 Pro Asn Thr Asn Tyr Gly Val Leu Leu Ile Glu Phe Phe Glu Leu Tyr  
 20 25 30  
 Gly Arg His Phe Asn Tyr Leu Lys Thr Gly Ile Arg Ile Lys Asp Gly  
 35 40 45  
 Gly Ser Tyr Val Ala Lys Asp Glu Val Gln Lys Asn Met Leu Asp Gly  
 50 55 60  
 Tyr Arg Pro Ser Met Leu Tyr Ile Glu Asp Pro Leu Gln Pro Gly Asn  
 65 70 75 80  
 Asp Val Gly Arg Ser Ser Tyr Gly Ala Met Gln Val Lys Gln Ala Phe  
 85 90 95  
 Asp Tyr Ala Tyr Val Val Leu Ser His Ala Val Ser Pro Ile Ala Lys  
 100 105 110  
 Tyr Tyr Pro Asn Asn Glu Thr Glu Ser Ile Leu Gly Arg Ile Ile Arg  
 115 120 125  
 Val Thr Asp Glu Val Ala Thr Tyr Arg Asp Trp Ile Ser Lys Gln Trp  
 130 135 140  
 Gly Leu Lys Asn Arg Pro Glu Pro Ser Cys Asn Gly Asn Glu Thr Leu  
 145 150 155 160  
 His Gln Val Gln Cys Arg Pro Leu Leu Pro His Ser Pro Ala Leu Val  
 165 170 175  
 Thr

<210> 10986  
 <211> 1254  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (69).. (650)

<400> 10986  
 gctggtgcgc gccggagccc aaattccaag tggaaactgc aggcgcacga gggaggaacg 60  
 cgtggagcat gaaaaggcag ggggcctcct ctgagcgaaa acgagcgagg ataccgtccg 120  
 ggaaggccgg agcagcaaat ggatttctca tggaaagttg tgttgattca gtggaatcag 180  
 ctgtgaatgc agaaagagga ggtgctgata ggattgaatt atgttctggt ttatcagagg 240  
 ggggaactac acccagcatg ggtgtccttc aagtagtgaa gcagagtgtt cagatcccag 300  
 tttttgtgat gattcggcca cggggagggtg attttttgta ttcagatcgt gaaattgagg 360  
 tgatgaaggc tgacattcgt cttgccaaagc tttatggtgc tgatggtttg gtttttgggg 420  
 cattgactga agatggacac attgacaaag agctgtgtat gtcccttatg gctatttgcc 480  
 gccctctgcc agtcactttc caccgagcct ttgacatggt tcatgatcca atggcagctc 540  
 tggagaccct cttaaccttg ggatttgaac gcgtgttgac cagtggatgt gacagttcag 600  
 cattagaagg gctacccta ataaagcgac tcattgagca ggagggtgta taacagacag 660  
 aaatctacaa aggatccttg agggttcagg tgctacagaa ttccactgtt ctgctcggtc 720

09620469.072800

tactagagac tcgggaatga agtttcgaaa ttcattctgtt gccatgggag cctcactttc 780  
 ttgctcagaa tattccctaa aggtaacaga tgtgaccaag gtaaggactt tgaatgctat 840  
 cgcaaagaac atcctgggtg agccagacct ctctgagaga catggatata acaggatgaa 900  
 ggtagaacta taatctgcaa ttctctatga cacagcttta accttcttct ctggccagga 960  
 cagtcgcaat ctttgtttta agtttcacat ggccatggag aatgtgcccc agaagaaaaa 1020  
 gaatttgaaa cagagataca gtcacttctt ttgcttagtc ttaccagtga ttgtcatcat 1080  
 ggtaaagct ggtctgtgct tcttccatag acagaagctt agtctgtttt cagtgggaatt 1140  
 aattgatgaa ctgggaaaat tttaactgca tggatatgaat tcagagtgtg acttaagggt 1200  
 caattcaaag cagtattttg acttttcatt tgtaaaataa aaatttccac tatt 1254

<210> 10987  
 <211> 194  
 <212> PRT  
 <213> Homo sapiens

<400> 10987  
 Met Lys Arg Gln Gly Ala Ser Ser Glu Arg Lys Arg Ala Arg Ile Pro  
 1 5 10 15  
 Ser Gly Lys Ala Gly Ala Ala Asn Gly Phe Leu Met Glu Val Cys Val  
 20 25 30  
 Asp Ser Val Glu Ser Ala Val Asn Ala Glu Arg Gly Gly Ala Asp Arg  
 35 40 45  
 Ile Glu Leu Cys Ser Gly Leu Ser Glu Gly Gly Thr Thr Pro Ser Met  
 50 55 60  
 Gly Val Leu Gln Val Val Lys Gln Ser Val Gln Ile Pro Val Phe Val  
 65 70 75 80  
 Met Ile Arg Pro Arg Gly Gly Asp Phe Leu Tyr Ser Asp Arg Glu Ile  
 85 90 95  
 Glu Val Met Lys Ala Asp Ile Arg Leu Ala Lys Leu Tyr Gly Ala Asp  
 100 105 110  
 Gly Leu Val Phe Gly Ala Leu Thr Glu Asp Gly His Ile Asp Lys Glu  
 115 120 125  
 Leu Cys Met Ser Leu Met Ala Ile Cys Arg Pro Leu Pro Val Thr Phe  
 130 135 140  
 His Arg Ala Phe Asp Met Val His Asp Pro Met Ala Ala Leu Glu Thr  
 145 150 155 160  
 Leu Leu Thr Leu Gly Phe Glu Arg Val Leu Thr Ser Gly Cys Asp Ser  
 165 170 175  
 Ser Ala Leu Glu Gly Leu Pro Leu Ile Lys Arg Leu Ile Glu Gln Glu  
 180 185 190  
 Val Val

<210> 10988  
 <211> 1498  
 <212> DNA

09629469.072800

<213> Homo sapiens

<220>

<221> CDS

<222> (314).. (628)

<400> 10988

```
cagaaaagtt accaaacagt ggtaaccata acaagtacca acaatgaact atggggaggg 60
aggagaatct gatttccaga gttaccacat tataatacta ttcaaatgt cacattttta 120
gcaaagatta catgacaagg aaaaaccaga aaagtatggc ccatacacag gtaaaaaaag 180
aaattaatag aaactacccc tgaagaagca cagacttcgg atgtacaaaa caaagacttt 240
tcatcaactc ttttagatat gctagaagag ctaaaggaaa ccatggacag agaacaaaaa 300
aattaggaaa gcaatgtctc atccaatata gaatatcaat aaagagattg aaattgtaga 360
aaagaaccaa atagaaattc tggagttgaa aagtattata actaaaactg aaaattcact 420
agaggtattc agcagcagac tggagaagtc agaagaaaga atcaacaggc ttcaagatag 480
gtcaattaag attatacagt ctgaggagca gaaaggaaaa agaatgaaga aaaatgaaca 540
gagcataaaa gacctctggg actctatcaa gcataccagt atatgcatga ggggagttccc 600
agaaggagaa gaaagagaga aaggggacata atatttgaag aaataatggt agaaaatgtc 660
ccagctttga tgaaatacat gaatctagat attcaagagg ctcaaagaac cctaaatagg 720
gtaaactcag aaagacccac accggaatgc aaaagtgagc tgggtgtggt ggcacgtgcc 780
ggtggtccca gctactcgag aggctaaggc agggaaatcg cttgaacca ggaggcagag 840
attgcggtga gccgggattg cgccagtgc ctcagctgg ggcacagagc gagattccat 900
ctcgaaaaaa aaaaaaaaaa aaaactattg ctgcagtcac tcagatggaa atggggaaag 960
aataatatta actgatttca aaaaggactt gaagatgtga atcatctatt ttgctgaaga 1020
aatcttaact ctttgaaatt actttttgtt gctgttgtca tactcttagg tgccaaactg 1080
cggtaaattt tttatcagtg aagtggaagc atgtgttttg ttgttttggg aatttttatc 1140
aagtatcttc agagaagatt acttcctgct ttatcttcaa aaaccggaaa ggaagggtca 1200
aagaaaagac agtagctggc cggctcatggt ggctcatgcc tgtaatccca acactttggg 1260
aggctgaggt gggcagatca cctgaggttg ggagttcgag gccagcctga ccaacgtgga 1320
gaaatgccgt ctctactaaa gatgcaagga ttggccgggc atggtggcgc gtgcctgtga 1380
tcccagctgc tcaggaggct gaggcaagag aatcgcttgg acctgggagg tggaggttgc 1440
ggtgagctga gatcacgcc ttgcaactcca gcctgggcaa caagcgaaac tctgtctc 1498
```

<210> 10989

<211> 105

<212> PRT

<213> Homo sapiens

<400> 10989

```
Met Ser His Pro Ile Gln Asn Ile Asn Lys Glu Ile Glu Ile Val Glu
 1             5             10             15
Lys Asn Gln Ile Glu Ile Leu Glu Leu Lys Ser Ile Ile Thr Lys Thr
      20             25             30
Glu Asn Ser Leu Glu Val Phe Ser Ser Arg Leu Glu Lys Ser Glu Glu
      35             40             45
Arg Ile Asn Arg Leu Gln Asp Arg Ser Ile Lys Ile Ile Gln Ser Glu
      50             55             60
```

000220.6962950

-4454/13211-

Glu Gln Lys Gly Lys Arg Met Lys Lys Asn Glu Gln Ser Ile Lys Asp  
65 70 75 80  
Leu Trp Asp Ser Ile Lys His Thr Ser Ile Cys Met Arg Gly Val Pro  
85 90 95  
Glu Gly Glu Glu Arg Glu Lys Gly Thr  
100 105

<210> 10990  
<211> 1907  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (446).. (1087)

<400> 10990  
ataagggaaa aaaactccat taaaaagccc agctttcctc catgttagat gtgacttgga 60  
aaatgagaaa gatttagcaa aattccaccg tgtcttttgc caggctagag acagggagag 120  
cagagtaaaa ccctcaggct gctgaaattt ctaggctgtt aggaagcccc tcgaattctg 180  
tgaaaatgag ggtttcttaa ctcacactga gagcggaaag gggcagaccc ttttcataac 240  
tccctcaagt gtgtgttacc tttctttacc agcatggtaa gcaacaggac atatcccagc 300  
ctcggacatg tctgtatgat ccaaggtacc caaagtcaga cagagttaa ccaagcctgg 360  
cactggcttt ctgccgcttc atgtgctttg gaaaaagcag gagaagcaat agcagcagga 420  
gtccccagca gctggagccg caagaatgaa ctgcaaagag ggaactgaca gcagctgcgg 480  
ctgcaggggc aacgacgaga agaagatgtt gaagtgtgtg gtggtggggg acggtgccgt 540  
ggggaaaacc tgccctgctga tgagctacgc caacgacgcc ttcccagagg aatacgtgcc 600  
cactgtgttt gaccactatg cagttactgt gactgtggga ggcaagcaac acttgctcgg 660  
actgtatgac accgcgggac aggaggacta caaccagctg aggccactct cctaccccaa 720  
cacggatgtg tttttgatct gcttctctgt cgtaaacctt gcctcttacc acaatgtcca 780  
ggaggaatgg gtccccgagc tcaaggactg catgcctcac gtgccttatg tcctcatagg 840  
gacccagatt gatctccgtg atgacccaaa aaccttggcc cgtttgctgt atatgaaaga 900  
gaaacctctc acttacgagc atggtgtgaa gctcgcaaaa gcgatcggag cacagtgcta 960  
cttggaatgt tcagctctga ctcagaaagg tctcaaagcg gtttttgatg aagcaatcct 1020  
caccattttc caccccaaga aaaagaagaa acgctgttct gagggtcaca gctgctgttc 1080  
aattatctga ggttgtctgg gacctgcctc caccocatcc agggatgaga atggcagcca 1140  
atctctgtgg ccaagctcca gccaaaaagg agggcacgac cagaaaaggaa ctccctttgc 1200  
acggaggctt gccccatcac cctctgagcc ctcccaacac agcacactag tcagcccact 1260  
gccacgacct ccctgccagc cagaagcatc cgtactgcac gctgtctgag aatgctgggc 1320  
ctggattgca gacagtgccg ctgctgatcg catcaaaaac aaagtcaaag gccatctcac 1380  
attttacaaa tcccagctc atgaacgtga agctgatagg aaatcacccc agggaaacccg 1440  
aaaaagaaac ttgattcctc tattgctggc ctactttgat gtcttttata aaacttggga 1500  
ctacaatact aacctttttt tctgaatctg ctgttctacc catgtgtctc acattcattt 1560  
gtattatttc aagaaatgta ctaatttcca gttcactcag gcottactaa tccataccaa 1620  
attagcctaa agacaaggca ttttatattc atttctatct tcagcatgtt tctaccaaag 1680  
ctattagaac caacacgtac ctctgaatgc ccgattataa gaagacatga gaagacttta 1740  
aaagtttttg aaatttacag agccatgatt ttigaaccta attgaaagaa aaccatctga 1800

09629469.072300

-4455/13211-

attgttgcag gtccacattt ttgccaaaga tacacttat agatgcttag tagtggcctg 1860  
atTTTTtcc atgtattgcc acgacaaact aaaaatgaac tgtgttt 1907

<210> 10991  
<211> 214  
<212> PRT  
<213> Homo sapiens

<400> 10991  
Met Asn Cys Lys Glu Gly Thr Asp Ser Ser Cys Gly Cys Arg Gly Asn  
1 5 10 15  
Asp Glu Lys Lys Met Leu Lys Cys Val Val Val Gly Asp Gly Ala Val  
20 25 30  
Gly Lys Thr Cys Leu Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu  
35 40 45  
Glu Tyr Val Pro Thr Val Phe Asp His Tyr Ala Val Thr Val Thr Val  
50 55 60  
Gly Gly Lys Gln His Leu Leu Gly Leu Tyr Asp Thr Ala Gly Gln Glu  
65 70 75 80  
Asp Tyr Asn Gln Leu Arg Pro Leu Ser Tyr Pro Asn Thr Asp Val Phe  
85 90 95  
Leu Ile Cys Phe Ser Val Val Asn Pro Ala Ser Tyr His Asn Val Gln  
100 105 110  
Glu Glu Trp Val Pro Glu Leu Lys Asp Cys Met Pro His Val Pro Tyr  
115 120 125  
Val Leu Ile Gly Thr Gln Ile Asp Leu Arg Asp Asp Pro Lys Thr Leu  
130 135 140  
Ala Arg Leu Leu Tyr Met Lys Glu Lys Pro Leu Thr Tyr Glu His Gly  
145 150 155 160  
Val Lys Leu Ala Lys Ala Ile Gly Ala Gln Cys Tyr Leu Glu Cys Ser  
165 170 175  
Ala Leu Thr Gln Lys Gly Leu Lys Ala Val Phe Asp Glu Ala Ile Leu  
180 185 190  
Thr Ile Phe His Pro Lys Lys Lys Lys Arg Cys Ser Glu Gly His  
195 200 205  
Ser Cys Cys Ser Ile Ile  
210

<210> 10992  
<211> 2504  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (319).. (870)

09629469.072300

<400> 10992

gatgcttcta	aattgtgato	actttcagga	ggcagcactg	cagctggaag	gatgagagcg	60
acctaggggtg	gagtggctga	ggcggcagat	ctgaacttgc	ggaggataag	aacccaaact	120
ttgactacat	cagtccgcac	ctcgccagtg	aagcaaagga	cgggttatct	tttttttttt	180
ctaagactca	aacttgggca	cttgatccct	tttcttggat	tgctttggag	gagacgattt	240
gctggcaacg	ttgggaacag	tcaggactgt	gttgtaactc	ttacttttaa	agcgacagta	300
gaggatcaga	cttttttaaat	gtttggaatt	caagatactt	taggaagagg	accaactctg	360
aaagagaaat	cgctgggctg	ggagatggat	tcggtcagg	cctgggtccg	gaatgtcgga	420
gtggtggacg	ctaagtgtgc	cgcgacagag	ggggtcgccc	tgtcccgggc	ccactttgag	480
aaacagcctc	cttccaactt	gaggaaatcc	aacttctttc	acttcgtcct	ggcgctctat	540
gacaggcagg	gccagccggg	ggagatcgag	cggacggcct	tcgtggactt	tgtggagaat	600
gacaaagaac	aaggcaacga	gaagaccaac	aacggcactc	actacaagtt	acagctcctc	660
tacagcaacg	gtgtccgcac	ggaacaggac	ctctatgtca	ggctcatcga	ctcggtcacc	720
aagcagccca	tcgcttacga	gggacagaat	aagaatccgg	aaatgtgccg	agttctcctg	780
acgcacgaag	tgatgtgtag	tcgatgtctg	gaaaagaaaa	gctgtggaaa	ccgaaatgag	840
actccatcgg	accagtcct	aattgacagg	tagggggaaa	aagtgatttt	tcaatcattt	900
ttggttccct	ttcttcatga	acctcaactc	tgagtactga	tccatggagc	tttgctgtca	960
agttggtttc	atgttatttc	aagtcactaa	ggctcatccaa	caaaggcctc	ctcatgctgg	1020
cctttcttgg	aagaagccag	aatcttccct	tggaaacagt	gtctctaaat	ctgtggtgga	1080
gtcttttcca	ggtgcaccag	cttcagccta	ataagtagta	tgtgtggtgc	aggatataag	1140
cgatggcacc	tctcctttcg	ggcaggggat	ggtctcaatc	agttttctag	aagaagcaat	1200
gtgccccaa	ttaaagtggc	cccactttat	tattctcggt	gattgctgct	tggctggaag	1260
attatcaatt	cagattacgg	tttaggggat	tatggcaagc	tctctgctgt	gttcagggag	1320
attcctttct	accatggagg	attgcattct	gtgttctatg	ttatattcag	aatgggaaag	1380
attctttggg	acaagacact	aattcactga	aatgtgattt	aggcatcctc	agctgtctgt	1440
tttttgtgat	tggaaacaga	acttacaaac	caatgaagaa	ataccaaatt	aacttcaga	1500
aatcatgtaa	tttttaagaa	accccatatt	cccatcccta	atttttttct	ctttcgttaa	1560
aaaacggaat	aattccctat	tgcttctttc	tttgggtttt	cacatttcta	gccaggctcct	1620
gaaatggatt	ggagagacca	cagtcctcaa	agttgttatt	ccaatattcc	aacgaattct	1680
cagttgggag	aatggaacct	ctggcattct	tccagaaaag	ccagcttggg	ttcttcgttg	1740
aaagtatagc	atagcctagg	aactgaggag	gctggaattc	tgatcttgct	ctagcttctg	1800
accttggaca	aagcactcag	catctttgtt	cttcaataat	ataatgatgg	gttaggaggt	1860
gcagtcactg	ctgtaggctt	caagaggcta	ctgaaatata	aatggcagct	ttgcagtgtt	1920
ctctgagatg	cttgaagagg	atgatgggca	aatataaaat	gtttgttgga	tgtgtatagt	1980
gtctttgcca	ttttagaagg	ttccagttag	ctgcgtttta	gggagctatt	ggggttgctc	2040
tggtcttttt	tgaaggtaca	gagaagctta	aatatataga	gttgcaagga	ctctttggag	2100
tcagtcattt	tcctcatcta	gctgaaaaat	ctgaacgctg	agcgggtggc	tgacttgccc	2160
gtggttgtgc	agctggttgg	gcagagctgg	cattagaaca	cagctgtcct	tacttcagg	2220
ctgggtgccg	taactcacgc	ctgtaatccc	agcaacttag	aagaccgagg	tgggcagatc	2280
acttgaggtc	gggggtttgc	gaccagcctg	gtcaacatag	tggacccag	actttactaa	2340
aaatacaaaa	attagtcagg	catggtggca	catgcctgta	atcccagcta	cttgggaggc	2400
tgaggcagga	aaatcgcttg	aacccaggag	gcacagattg	cagttagcca	agatcacgcc	2460
actgcactcc	agcctgggtg	acagagacag	tgagactctg	tctc		2504

<210> 10993

<211> 184

09629469.072800

<212> PRT

<213> Homo sapiens.

<400> 10993

```

Met Phe Gly Ile Gln Asp Thr Leu Gly Arg Gly Pro Thr Leu Lys Glu
 1             5             10             15
Lys Ser Leu Gly Ala Glu Met Asp Ser Val Arg Ser Trp Val Arg Asn
          20             25             30
Val Gly Val Val Asp Ala Asn Val Ala Ala Gln Ser Gly Val Ala Leu
      35             40             45
Ser Arg Ala His Phe Glu Lys Gln Pro Pro Ser Asn Leu Arg Lys Ser
      50             55             60
Asn Phe Phe His Phe Val Leu Ala Leu Tyr Asp Arg Gln Gly Gln Pro
      65             70             75             80
Val Glu Ile Glu Arg Thr Ala Phe Val Asp Phe Val Glu Asn Asp Lys
          85             90             95
Glu Gln Gly Asn Glu Lys Thr Asn Asn Gly Thr His Tyr Lys Leu Gln
          100             105             110
Leu Leu Tyr Ser Asn Gly Val Arg Thr Glu Gln Asp Leu Tyr Val Arg
          115             120             125
Leu Ile Asp Ser Val Thr Lys Gln Pro Ile Ala Tyr Glu Gly Gln Asn
          130             135             140
Lys Asn Pro Glu Met Cys Arg Val Leu Leu Thr His Glu Val Met Cys
          145             150             155             160
Ser Arg Cys Cys Glu Lys Lys Ser Cys Gly Asn Arg Asn Glu Thr Pro
          165             170             175
Ser Asp Pro Val Ile Ile Asp Arg
          180

```

<210> 10994

<211> 1349

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (148).. (459)

<400> 10994

```

aaggctcgaca gcccgacgt gaagaggtgc ctgaatgccc tagaggagct gggaaccctg 60
caggtgacct ctcagatcct ccagaagaac acagacgtgg tggccacctt gaagaagatt 120
cgccgttaca aagcgaacaa ggacgtaatg gagaaggcag cagaagtcta taccggctc 180
aagtcgcggg tcctcggccc aaagatcgag gcggtgcaga aagtgaacaa ggctgggatg 240
gagaaggaga aggccgagga gaagctggcc ggggaggagc tggccgggga ggaggcccc 300
caggagaagg cggaggacaa gccagcacc gatctctcag cccagtgaa tggcgaggcc 360
acatcacaga agggggagag cgcagaggac aaggagcacg aggagggtcg ggactcggag 420
gaggggccaa ggtgtggctc ctctgaagac ctgcacgagt gagtgtcccg ggccgtgggg 480

```



```

tttggactcc tgagcggcag cgggtgtgacg cgcaccctgg gtccgagccg ctctctctgt 540
gccagtcctt ctgggatggg tcccagggat gtcgtcctta ctcgggcctc ccaccttcac 600
agctgacccc agggccccgc tggctggcac ttccggcggc ccctacagag aggcagctcc 660
agggccttga gctgcctgcc cctggcctcc tgggaagggtg gcttcttgcc gagcctccag 720
ggtggcccag gtaggtaggc cccgagcaca ggcacccggc tatctgacgg tgctgtgcc 780
catcactgtg ggctgctgtc tggtagaagg ctcaagtggag tcaactactt acccagcagc 840
tgccttgtgc tatgcctggc tggcgccagc gtgggggaccc tggagatggt tgtggtctct 900
agtggcagaa gacaggcaga taggagggcg gcactcgagc ctcaagtgcc acaacggggg 960
tacactcctc ggtgcccata ccaccaacc gccctacagg cagggcaggg gcgggagggc 1020
atcctcacac cgcctttgct gttcccacca gcagcgtacg ggagggtccc gacctggaca 1080
ggcctgggag cgaccggcag gacgcgcaga gggcacgggg ggactcggag gccctggacg 1140
aggagagctg agccgcgggc agccaggccc agccccgcc cgagctcagg ctgcccctct 1200
ccttccccgg ctgcagagg agcagagcag agaactgtgg ggaacgctgt gctgtttgta 1260
tttgttccct tgggtttttt tttcctgcct aatttctgtg atttccaacc aacatgaaat 1320
gactataaat ggttttttaa tgaaaaaag                                     1349

```

<210> 10995  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 10995

Met	Glu	Lys	Ala	Ala	Glu	Val	Tyr	Thr	Arg	Leu	Lys	Ser	Arg	Val	Leu
1				5					10					15	
Gly	Pro	Lys	Ile	Glu	Ala	Val	Gln	Lys	Val	Asn	Lys	Ala	Gly	Met	Glu
			20					25					30		
Lys	Glu	Lys	Ala	Glu	Glu	Lys	Leu	Ala	Gly	Glu	Glu	Leu	Ala	Gly	Glu
			35				40					45			
Glu	Ala	Pro	Gln	Glu	Lys	Ala	Glu	Asp	Lys	Pro	Ser	Thr	Asp	Leu	Ser
			50			55					60				
Ala	Pro	Val	Asn	Gly	Glu	Ala	Thr	Ser	Gln	Lys	Gly	Glu	Ser	Ala	Glu
			65			70				75				80	
Asp	Lys	Glu	His	Glu	Glu	Gly	Arg	Asp	Ser	Glu	Glu	Gly	Pro	Arg	Cys
			85						90					95	
Gly	Ser	Ser	Glu	Asp	Leu	His	Glu								
			100												

<210> 10996  
 <211> 1876  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (218).. (1036)

<400> 10996

```

gggggggagaa attacagact ctcagactga ggatagttat gacgaagcca ttaccagtga 60
aggcaatgta actgcagaag atagtgagga tgaagatgaa gacaaaatgt ggcccccatg 120
tattagagta attgtcatta gatcacctgt gttgcagata ggatcactct ttatcattac 180
tgctgtaaac cctgctacaa ttggaagaga aaaggatatg gaacatactc tccgaatccc 240
tgaagttagt gtcagtaagt ttcatgcaga aatttatttt gacctgactc tacaaagtta 300
tgtccttggt gatcaaggca gtcaaaatgg cacaattgtt aatggaaaac agattcttca 360
gccgaaaact aaatgtgacc cttacgtact tgagcatgga gatgaagtca aaattggaga 420
aactgtctta tcctttcaca ttcatcctgg cagtataacc tgtgatggct gtgaaccagg 480
gcaggtaga gccacacctc gccttgataa gaaagatgaa tcttttggtg gtccaacact 540
aagtaaggag gaaaaagagt tggaagaag aaaagaatta aagaaaatac gagtaaaata 600
tggtttacag aatacagaat acgaagatga aaagacattg aagaatccaa aatataaaga 660
tagagctgga aaacgtaggg agcaggttgg aagtgaagga actttccaaa gagatgatgc 720
tcctgcatct gttcattctg aaattactga tagcaacaaa ggtcgggaaga tgttgagaga 780
gatgggttgg aagaaaggag agggcctggg gaaggatggt ggaggaatga aaacgccgat 840
ccagcttcag cttcggcgaa cacatgcagg cttgggggaca ggcaaaccat cctcatttga 900
agatgttcac cttctccaaa acaagaacaa aaaaaactgg gacaaagcac gagagcgggt 960
tactgaaaac ttcccagaaa ctaagcctca aaaagatgac ccaggggacca tgccttgggt 1020
aaaagggaact ttagagtga ggctaatacat agaaagaaaa cctctagttt ttttaaaaat 1080
agaatttgga aacttatttt ttctcccaa aagaatcagc agcacagggg aactatgtca 1140
cagtttacct cttcctgatt cagaaatgtg tatggtttgc agcttttaaa aaccattttt 1200
ttaaaaactaa taaatagtga ctgaaccaat ttatgcagta aatagactaa agttcacagg 1260
gcacggatga gtttatcaaa cttcgttatt ttatcttcat ttacaacatc catataagca 1320
actagccata taagcaaaat tcatagaact actaatgact taagtgtaca tctgttcttg 1380
tctccatata ttcatgtaag atgcacaaca aaagaaacat cagaagttaa taaaaataaa 1440
tctgactata cgcacctca tttattccct ttagaaccta ggtaaaaaat gttgcgaaaa 1500
catgggtagt ggcgcataca ttttgttatc cttgaaatag cctaagtaat gttattgaag 1560
aactaatgaa caggtaacat attgtagaaa attagtcttt cattgttttc ttctgtgaag 1620
aatctgttgc tatgtactgt atattcagca tttatatttg gtttgtttca tagctaatga 1680
ggtatttaga tatgaacaac tgaatacata ttgaaatagt gtgctggctt ttgtagtatt 1740
gataaagacc attgcaggca atggaattgt gccagagaaa tctgatttct agtacaaaag 1800
gaatacttag ccagggcctc aagctcaaga tacttattga aaacatcctc aattgcaata 1860
aaaacattat aacatg
1876

```

<210> 10997

<211> 273

<212> PRT

<213> Homo sapiens

<400> 10997

```

Met Glu His Thr Leu Arg Ile Pro Glu Val Gly Val Ser Lys Phe His
 1           5           10          15
Ala Glu Ile Tyr Phe Asp His Asp Leu Gln Ser Tyr Val Leu Val Asp
      20          25          30
Gln Gly Ser Gln Asn Gly Thr Ile Val Asn Gly Lys Gln Ile Leu Gln
      35          40          45
Pro Lys Thr Lys Cys Asp Pro Tyr Val Leu Glu His Gly Asp Glu Val

```

-4460/13211-

50		55		60
Lys Ile Gly Glu Thr Val Leu Ser Phe His Ile His Pro Gly Ser Asp				
65		70		75
Thr Cys Asp Gly Cys Glu Pro Gly Gln Val Arg Ala His Leu Arg Leu				
	85		90	95
Asp Lys Lys Asp Glu Ser Phe Val Gly Pro Thr Leu Ser Lys Glu Glu				
100		105		110
Lys Glu Leu Glu Arg Arg Lys Glu Leu Lys Lys Ile Arg Val Lys Tyr				
115		120		125
Gly Leu Gln Asn Thr Glu Tyr Glu Asp Glu Lys Thr Leu Lys Asn Pro				
130		135		140
Lys Tyr Lys Asp Arg Ala Gly Lys Arg Arg Glu Gln Val Gly Ser Glu				
145		150		155
Gly Thr Phe Gln Arg Asp Asp Ala Pro Ala Ser Val His Ser Glu Ile				
	165		170	175
Thr Asp Ser Asn Lys Gly Arg Lys Met Leu Glu Lys Met Gly Trp Lys				
180		185		190
Lys Gly Glu Gly Leu Gly Lys Asp Gly Gly Gly Met Lys Thr Pro Ile				
195		200		205
Gln Leu Gln Leu Arg Arg Thr His Ala Gly Leu Gly Thr Gly Lys Pro				
210		215		220
Ser Ser Phe Glu Asp Val His Leu Leu Gln Asn Lys Asn Lys Lys Asn				
225		230		235
Trp Asp Lys Ala Arg Glu Arg Phe Thr Glu Asn Phe Pro Glu Thr Lys				
	245		250	255
Pro Gln Lys Asp Asp Pro Gly Thr Met Pro Trp Val Lys Gly Thr Leu				
260		265		270
Glu				

<210> 10998  
 <211> 2775  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (2355).. (2618)

<400> 10998  
 gttttactat gttgttggct attttatcgt tgagttgtaa gagttctttg tatattotag 60  
 atacaaatcc cttatcaggt atatgacttg caaatatctt ctccattct gtgtgttct 120  
 ttttgacttt cttgattgta tgccttgaat taaaaaaaat gcctaatttt gatgaattcc 180  
 aagtttatca ttttttttaa ttttttcacc tgtgcttttg gtgtcatcta aggaggtttt 240  
 gcctatgogg toatgaatat ttactcatct gttttcttct aagagtgata atagtttcag 300  
 ctottatatt gagatatatg atatattttg agttagtttg tgtgtgtgtg gtgtgaggta 360  
 ggggttcagc ttcattcttt tgcattgtgga tatccagttg tctcagtatc aattgttgaa 420

000220"09462960



Met	Val	Pro	Gly	Phe	Gln	Pro	Gln	Phe	Ser	Thr	Ala	Val	Gly	Glu	Ile
1				5				10						15	
Trp	Pro	Gly	Gln	Ala	Thr	Leu	Leu	Leu	Gln	Ala	Gln	Pro	Cys	Ser	Ser
		20						25					30		
Arg	Thr	His	Leu	Cys	Ser	Leu	Pro	Leu	Cys	Arg	Thr	His	Lys	Thr	Ser
		35					40					45			
His	Cys	Tyr	Arg	Ile	Thr	Tyr	Arg	His	Met	Glu	Arg	Thr	Leu	Ser	Gln
	50					55				60					
Arg	Glu	Val	Arg	His	Ile	His	Gln	Ala	Leu	Gln	Glu	Ala	Ala	Val	Gln
65					70					75					80
Leu	Leu	Gly	Val	Glu	Gly	Arg	Phe								
				85											

<210> 11000  
 <211> 1705  
 <212> DNA  
 <213> Homo sapiens

<400> 11000

atctaaaatg	cttttgtttt	aaatggacaa	aatttgccaa	acaccttttt	acctttctgc	60
ctggaaaaat	gttttgatgt	gttggctttc	cacctcctga	tttttggtg	tggctccttc	120
ccctaccccc	tcccgccccg	ccaaatgttg	ttgtacactg	ccttgctgtg	ttcatttcca	180
cgtgtgggtt	cactgaccac	attagctggg	agctcctggg	attgtatgct	tcctatccag	240
aatttgttcc	atagaaaacc	tgtgtcttca	acatacttgc	tttgaaatta	ttttgatctg	300
tatcagcagg	aataggtttt	gagatcctgg	atattaactt	ctgggtgcc	ctctctctag	360
aagctaattg	actgatttgt	ggtggaggcg	agatgagagt	ctatacat	gacctatttc	420
acagagctta	ccttgcaagc	tattgaaatg	caaatacaga	ctagcttaga	gattctaaga	480
attcacacat	tcagttcttt	gtttttttct	gaaaaataag	cattcaaatt	tcatgcacat	540
tctattattc	atgtgcctta	tatttaggtt	ccgcttgat	gtctagataa	atcttatcac	600
cattatttaa	aatttcatga	atgaaacttt	gcacttttaa	tactaacact	agcctagacc	660
aatcaaaaata	atttgaaatg	cagcccttaa	atgaaactct	ccgtgtgtct	gtatatatac	720
atttacatat	acacctttgc	caatgcctta	tctaccactg	tcttttaaat	ctactccatg	780
taaaatgggg	aacgattcaa	aacctctttt	atattgttgt	gcctcagaaa	aaaatggaat	840
ctttggaatg	tgctgcttaa	aaggcttcta	tgagatagca	cattaatgtc	aaagcacatt	900
ttctttgttt	gatagttgtc	acgttagtgg	tcctgaaaca	gaatactctt	ttcgtgtctg	960
tccattcatt	tgtattttta	agtcatccac	cacttttcat	ttgtcaagca	cttgaaaaag	1020
aatatttgtt	gtcagcaaga	tagttcctct	gtcatttgat	ctacaagtta	gccttcctga	1080
acagttaatg	ccttcagaat	cctttttttc	tctgagctat	ggctcgctta	cagagaggag	1140
aatgattttc	ttagccagat	ccaagactcc	ctcaactgag	tctactgcct	aatgcctatt	1200
ggtgctagca	ctaacatttt	ctgatacagt	cttcaatatg	tgatgaggct	gagtatccgg	1260
cattaagtgtt	ggaagaagga	acatagactt	aagtgaagtt	ctttgttaag	ccttatgtcc	1320
ccatagagtg	ttgatgatgg	tttgaattga	gtcactttct	gtcactttct	gggagccata	1380
tcaaaaaaga	ctttaccagt	tctctttgct	gcctttgaag	ttctgtaatt	tctaggtagg	1440
gtcaattttc	tgggaaaaat	aacaaatatt	catgggaatt	ttgatacaca	gcctgggtga	1500
cagagcgaga	ctccatctca	aaaaataaaa	caacaacaac	aacaaaaaca	caaatattag	1560
ctggagggtg	tgggtgggagc	ctgtaatccc	agctacttgg	gaggctgagg	cactagaatc	1620
acttgaacta	gggaggcgga	agttgcagtg	agctgagatt	gtgccactac	tctccagcct	1680

09629469.072300

gggtgctgga acaagactcc ttctc

1705

<210> 11001  
<211> 1715  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (136).. (1353)

<400> 11001  
acacccgacg ctctggccca cacagacgct actctgtagc atctcagggt cccctctggct 60  
gcactctgga ggaccacact cgtttttctt ttggctgcca gaggcccccg catccaccgc 120  
tgagctggga gaaagatggc ggccagccgt cgacaggatt tggcccagct catgaattcg 180  
agcggctctc ataaagatct ggctggcaag tatcgtcaga tcctggaaaa agccattcag 240  
ttatctggag cagaacaact agaagctttg aaagcttttg tggaagcaat ggtaaatgag 300  
aatgtcagtc tcgtgatctc ggggcagttg ctgactgatt tttgcacaca tcttcctaac 360  
ttgcctgata gcacagccaa agaaatctat cacttcacct tggaaaagat ccagcctaga 420  
gtcatttcat ttgaggagca ggttgcttcc ataagacagc atcttgcata tatatatgag 480  
aaagaagaag attggagaaa tgcagcccaa gtgttggttg gaattccttt ggaaacagga 540  
caaaaacagt acaatgtaga ttataaactg gagacttact tgaagattgc taggctatat 600  
ctggaggatg atgatccagt ccaggcagag gcttacataa atcagagcat gttgcttcag 660  
aatgaatcaa ccaatgaaca attacagata cattataagg tatgctatgc acgtgttctt 720  
gattatagaa gaaaattcat tgaagctgca caaaggatca atgagctctc ttacaagaca 780  
atagtccacg aaagtgaag actagaggcc ttaaaacatg ctttgcactg tacgatctta 840  
gcatcagcag ggcagcagcg ttctcggtat ctagctactc tttttaagga tgaaagggtg 900  
cagcaacttg ctgcctatgg gatcctagag aaaatgtatc tagataggat catcagagga 960  
aatcaacttc aagaatttgc tgccatgctg atgcctcacc aaaaagcaac tacagctgat 1020  
ggttccagca tcttggacag agctgttatt gaacacaatt tgttgtctgc aagcaaatta 1080  
tataataata ttaccttcga agaacttgga gctcttttag aggtccctgc agctaaggcg 1140  
gaaaagatag catctcaaat gataaccgaa ggacgtatga atggatttat tgaccagatt 1200  
gatggaatag ttcattttga aacacgagaa gccctgccaa cgtgggataa gcagatccaa 1260  
tcactttgtt tccaagtga taaccttttg gagaaaatta gtcaaacagc accagaatgg 1320  
acagcacaag ccatggaagc ccagatggct cagtgaatcc ttgcagaact totgtgcaca 1380  
tgacatcttt ttccatgttg tgcagatcag ttctactatc tccaaagcat ttgcatcatg 1440  
accttataca tttcaatccc ttttatgctg gattccgttt aaagaagaca ttattagagc 1500  
aggaagtaca agcatttaaa atatgtagtt cccatatatt tcagggtctc tgtgtattaa 1560  
gctaactcag atgttttgaa agctttttct ttaaacagag gtgaaatatc tgtggctaaa 1620  
aagtttgaga tttgtgataa cttttagtgc atgtaaaact taagtgttcc atgcctctcc 1680  
aaatgtgggt attctaataa atggagaaat gagcc 1715

<210> 11002  
<211> 406  
<212> PRT  
<213> Homo sapiens

<400> 11002

Met	Ala	Ala	Ala	Val	Arg	Gln	Asp	Leu	Ala	Gln	Leu	Met	Asn	Ser	Ser
1				5					10					15	
Gly	Ser	His	Lys	Asp	Leu	Ala	Gly	Lys	Tyr	Arg	Gln	Ile	Leu	Glu	Lys
			20					25					30		
Ala	Ile	Gln	Leu	Ser	Gly	Ala	Glu	Gln	Leu	Glu	Ala	Leu	Lys	Ala	Phe
		35					40					45			
Val	Glu	Ala	Met	Val	Asn	Glu	Asn	Val	Ser	Leu	Val	Ile	Ser	Arg	Gln
	50					55					60				
Leu	Leu	Thr	Asp	Phe	Cys	Thr	His	Leu	Pro	Asn	Leu	Pro	Asp	Ser	Thr
65					70					75					80
Ala	Lys	Glu	Ile	Tyr	His	Phe	Thr	Leu	Glu	Lys	Ile	Gln	Pro	Arg	Val
				85						90				95	
Ile	Ser	Phe	Glu	Glu	Gln	Val	Ala	Ser	Ile	Arg	Gln	His	Leu	Ala	Ser
		100						105					110		
Ile	Tyr	Glu	Lys	Glu	Glu	Asp	Trp	Arg	Asn	Ala	Ala	Gln	Val	Leu	Val
	115					120						125			
Gly	Ile	Pro	Leu	Glu	Thr	Gly	Gln	Lys	Gln	Tyr	Asn	Val	Asp	Tyr	Lys
130						135					140				
Leu	Glu	Thr	Tyr	Leu	Lys	Ile	Ala	Arg	Leu	Tyr	Leu	Glu	Asp	Asp	Asp
145					150					155					160
Pro	Val	Gln	Ala	Glu	Ala	Tyr	Ile	Asn	Arg	Ala	Ser	Leu	Leu	Gln	Asn
				165					170					175	
Glu	Ser	Thr	Asn	Glu	Gln	Leu	Gln	Ile	His	Tyr	Lys	Val	Cys	Tyr	Ala
			180					185					190		
Arg	Val	Leu	Asp	Tyr	Arg	Arg	Lys	Phe	Ile	Glu	Ala	Ala	Gln	Arg	Tyr
		195					200					205			
Asn	Glu	Leu	Ser	Tyr	Lys	Thr	Ile	Val	His	Glu	Ser	Glu	Arg	Leu	Glu
	210					215					220				
Ala	Leu	Lys	His	Ala	Leu	His	Cys	Thr	Ile	Leu	Ala	Ser	Ala	Gly	Gln
225					230					235					240
Gln	Arg	Ser	Arg	Met	Leu	Ala	Thr	Leu	Phe	Lys	Asp	Glu	Arg	Cys	Gln
				245					250					255	
Gln	Leu	Ala	Ala	Tyr	Gly	Ile	Leu	Glu	Lys	Met	Tyr	Leu	Asp	Arg	Ile
		260					265						270		
Ile	Arg	Gly	Asn	Gln	Leu	Gln	Glu	Phe	Ala	Ala	Met	Leu	Met	Pro	His
	275						280					285			
Gln	Lys	Ala	Thr	Thr	Ala	Asp	Gly	Ser	Ser	Ile	Leu	Asp	Arg	Ala	Val
	290					295					300				
Ile	Glu	His	Asn	Leu	Leu	Ser	Ala	Ser	Lys	Leu	Tyr	Asn	Asn	Ile	Thr
305				310						315					320
Phe	Glu	Glu	Leu	Gly	Ala	Leu	Leu	Glu	Val	Pro	Ala	Ala	Lys	Ala	Glu
				325					330					335	
Lys	Ile	Ala	Ser	Gln	Met	Ile	Thr	Glu	Gly	Arg	Met	Asn	Gly	Phe	Ile
		340					345					350			
Asp	Gln	Ile	Asp	Gly	Ile	Val	His	Phe	Glu	Thr	Arg	Glu	Ala	Leu	Pro
	355					360						365			

090229.6462950

-4465/13211-

Thr Trp Asp Lys Gln Ile Gln Ser Leu Cys Phe Gln Val Asn Asn Leu  
370 375 380  
Leu Glu Lys Ile Ser Gln Thr Ala Pro Glu Trp Thr Ala Gln Ala Met  
385 390 395 400  
Glu Ala Gln Met Ala Gln  
405

<210> 11003  
<211> 1582  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (5).. (529)

<400> 11003  
aattatggcg acctccgcga cgtcgcgcga cgcgcctggt tttccagctg agggtagatg 60  
cggttactat gtggaaaaga agaaacggtt ctgcaggatg gtggtggccg cagggaaaag 120  
atthttgtggt gaacacgctg gagccgcgga ggaagaagat gctcggaaaa gaatcctgtg 180  
tccttttagat ccaaaacaca cagtatatga agatcaacta gcaaagcatt tgaaaaaatg 240  
taactcaaga gagaaaccaa aacctgattt ctatattcaa gatattaatg caggcttaag 300  
agatgaaaca gaaatacctg aacaattagt tccaatttct totctatctg aagagcagtt 360  
ggaaaagtta attaagaaat tgagaaaagc aagtgaaggo ttgaattcta cacttaaaga 420  
tcataattatg tcccatccag cattacacga tgcacttaat gaccctaaaa atggcgattc 480  
tgcaaccaag cacctgaaac agcagggtatg ttaggctat agtaactact aaacatggcc 540  
tttggttcatt tgtaaaaact gttttaaatg taattattaa taagatttta tttgttttac 600  
ctttgagggt accaaatatt tccatttcaa aaatatatag aaacatatac aaaaaattga 660  
gggcatggat gtgattctga gtaccgtata ttaaataatt aaaggcaaga gagaaaaatt 720  
ttaagtcaaa tacaaattat caatgtaagc atactgcctt atgcagaaat taccttgctg 780  
ttttccatt tgaaccaa atgtgtttact tagtttataa aataatcttg tgaagtttgc 840  
aggcttctat ttaggtaac attgaaaatt taaagttact tggccaaga agatgcttg 900  
ttgagtttg agcgggaaag ggaaaattat ctcatgggt tgatattgcc ttaaaagatg 960  
ctgaaaaagt tcacttcac ctagtggaag aggtgaccac aagattcaag gtggatggaa 1020  
aacacagaaa gaaaaattca gtgtttgaaa gacttcaaat tgatattcaa cacttgtgtt 1080  
tgaacaagat tcctgtgtta agagaagaaa aactacctgt ggtaggaatt ggaaagcatc 1140  
tgtgtggtat ggcaacaggt acgtaaacat actgataatg ttacattaa tgcattaagt 1200  
tttggcctaa cctggcccca accatttcag tggctctctt tgaatagata tcttatgttt 1260  
acaactcaat aatctttata gagcactggc cctgtgcttt attagatgca tagctttcct 1320  
atttatctgc tcatattggc cattttgcag gatgaattaa gagttttgta tgtaataact 1380  
gcatcacatt agaccttaaa gttctttggg ttaaatttca accagaaaag gaaaataaga 1440  
coatttatgg aaactgtatg attccacct gaagctactg attttttaga gtagttgctt 1500  
agaaagaact cagaaacctc ttctactaaa agactattgt gtttcaggat tctggggaaa 1560  
aagaaaaaaa taaatgtag ac 1582

<210> 11004

09629469.072800



<211> 175  
<212> PRT  
<213> Homo sapiens

<400> 11004

Met	Ala	Thr	Ser	Ala	Thr	Ser	Pro	His	Ala	Pro	Gly	Phe	Pro	Ala	Glu
1				5					10					15	
Gly	Arg	Cys	Gly	Tyr	Tyr	Val	Glu	Lys	Lys	Lys	Arg	Phe	Cys	Arg	Met
			20					25					30		
Val	Val	Ala	Ala	Gly	Lys	Arg	Phe	Cys	Gly	Glu	His	Ala	Gly	Ala	Ala
		35				40					45				
Glu	Glu	Glu	Asp	Ala	Arg	Lys	Arg	Ile	Leu	Cys	Pro	Leu	Asp	Pro	Lys
	50					55				60					
His	Thr	Val	Tyr	Glu	Asp	Gln	Leu	Ala	Lys	His	Leu	Lys	Lys	Cys	Asn
65					70					75					80
Ser	Arg	Glu	Lys	Pro	Lys	Pro	Asp	Phe	Tyr	Ile	Gln	Asp	Ile	Asn	Ala
			85						90					95	
Gly	Leu	Arg	Asp	Glu	Thr	Glu	Ile	Pro	Glu	Gln	Leu	Val	Pro	Ile	Ser
			100					105					110		
Ser	Leu	Ser	Glu	Glu	Gln	Leu	Glu	Lys	Leu	Ile	Lys	Lys	Leu	Arg	Lys
		115				120						125			
Ala	Ser	Glu	Gly	Leu	Asn	Ser	Thr	Leu	Lys	Asp	His	Ile	Met	Ser	His
	130					135					140				
Pro	Ala	Leu	His	Asp	Ala	Leu	Asn	Asp	Pro	Lys	Asn	Gly	Asp	Ser	Ala
145					150					155					160
Thr	Lys	His	Leu	Lys	Gln	Gln	Val	Cys	Leu	Gly	Tyr	Ser	Asn	Tyr	
			165						170					175	

<210> 11005  
<211> 2089  
<212> DNA  
<213> Homo sapiens

<400> 11005

gaactttata	gttttttcaa	aatggcagat	acttgccotta	tcagagcaga	aggtttagctt	60
ggtgattgta	caagtgttgt	caattttctag	tttatactta	atatttccttt	ttctcacctg	120
ctacttacat	caccaaacac	tcacacagtc	tgattataaa	atattgagac	tgacagtcac	180
atagaaccag	tttcataacc	tcattaccat	gtacacccag	ctcagtagct	ctccagactg	240
caaacccttt	gagggttccg	gcctggcctt	tctttatatt	tggggaaatg	ttagagaaaa	300
cagcatctaa	aactggaaac	cttgacttaa	attagccatt	tottotcctc	ctaaattgag	360
agacatgagt	tctaaatggc	agagaccatt	tataggagaa	tgccaaagag	agcagaagag	420
aatgggaagc	ctttcccaca	gcagaaactt	tccacagcag	agacaataga	ctgatcccta	480
tcacatcccc	taaatatttc	ttctgacacc	tggatgggtt	ttgacaatca	tagaagcaaa	540
ctggacagag	tgccattttac	ttctgtgcca	tttcatactg	gggcttttga	cagaatagga	600
aatgcattgt	ctaggttcct	ctagacctct	aggttccctt	ctattotcag	aagaaactta	660
agttatgctt	gagtataact	tgagtagggg	ccaggtaggg	gcagcattgt	gggattcagc	720
cacaatgggtg	tgattcaatc	tgccctctgg	tctttgggtt	catttaacgt	gcatttattg	780

09629469.072800

```

agcagctaac ttgagtcagc actgtactag gtgctatata ccagggatgt acaaaacaga 840
tttgatgttg ctgattaaga aagtatctgt acaagttaca aactcacctc ccagagcact 900
tgccctggag ccctggagct tgccccagtc ttccctcctt ctaagatcac cacttaccca 960
actgggaaga gatcttggtc tgcttgtttt ccatacctct ctggtaggag gcaaagcgat 1020
ctgcttgaaa atatgtctga aagataatca gcaaaataatt tcaaactctg gaactgtcat 1080
tatgaattta ctgccattag attgtattga ggtccctgaa gtcattggata accagaaggg 1140
ggaatttgaa gattccattt aataaaaaga agttgataca aagaagctaa gatataaat 1200
aaaatttcat agttggaaga gaacatgatg cttctgtatt ccaattactg attatacctt 1260
ttgttcatag tcttttaaat ctgagctctt tggcaatccc atttcagccg ctggtctcat 1320
taggtaccat cctttctccc tcagaattaa ttttcgcttc tggaatcaga atgtcattct 1380
taagggtctc ccttattagt accttttagga ccaagttcaa actacctagc aggacataac 1440
aggcccttca caatataact ccattctatt attttgacct cttctctcca acctccttta 1500
tgcactagcc acagtaagtg tctgctatto acacttcage acatatgtct ctatgctttc 1560
atgcctctgt agaagtgtg ccttctgcct gcaacgcctc tcacctccac actcaccaca 1620
attgcacctt ccttcacttc ctttccatcc tttgaactct tgccatgatg cctttttag 1680
ttcataagca tgatgattga gtgttcatac acatgtgtga ggtatgtcgc ccccaaacct 1740
tttatgacat tggcacatta cctgtctgac atgaaagaaa aataataata aaaattttta 1800
aatggggcag ccaggcgcca tggctcacgc ctgtaatccc agcactttgg gaggccgagg 1860
cgggcggtac acgagatcag gagatcgaga ccctcctggc taacacaatg aaacaccgtc 1920
tctactaaaa atacagaaaa ttagccaggc gtgggtggcg gcacctgtag tcccagctac 1980
tcgggagggt gaggcaggag aatggcgtga acctggggagg cagagcttgc agtgatecaa 2040
gatagcacca ctgcactcct gcctgggcaa aagagcaaga ctccatctc 2089

```

<210> 11006  
 <211> 1709  
 <212> DNA  
 <213> Homo sapiens

```

<400> 11006
gaaagaaaaa gaaaaaagaa agagagattc caaccagcct ttcttccctg gttccctgac 60
agctcagagt taaccattgt gccctaagc ctaacagcag ctggagctga tagcctttca 120
cagggcctgc cagcagcctt ggagaaacca cgagcccatt taacaggcag gacgctgagg 180
ctctgataac aagtgcggtt tcggacaaga gcgggagagg agatggagaa acagaccctc 240
gtgcgtggct ggtggggatg gaacaaggcc cagcctggca gcttctcaca tggtaaacac 300
ggaattacca tagggcccag caatcccact cctggggata gacccacag aactgacagc 360
agggactgaa agaggtgttt gcacacacaa gtgcacagcg gcatgattcc caacagcccc 420
agggtggaag ccaccccagg cgcccatcag tggataaaca cagcatggtc caaccagaca 480
gtggaatatt acgcagccat gaaaaggaag ggaatccaga cacgggctac agcgtggatg 540
aaccttgagg acctcacgt cagttagagg atccagacac aaaaggacgt atcctgtgtg 600
atccactcc tgggaagtcc ctagagtctg cagattcaca gagacaggaa ataggatgag 660
tgagtgccag gggctgggga gggggacagg gagtgagtgt ttcattggga cagagtttca 720
gtttgggaag aggagaaagt tctggagagg atgggtgtga tggcggcaca acattgtagt 780
gagaaaagag agaggagag gaagggtga aagcccaaag cccatcttc cggctccagc 840
gtcatatgag atgcgtgttc ccgcggcctc accgttgagt ttgaaggcgt gatgtcagaa 900
tgcaggccca gcaggacac ccggggagat ggtgggggtg gctggcaggg cgggtttcac 960
ctggactgca ccagcccagg tgtgacgggc tctgggccag acccaggcac ccaaggtgag 1020
aaggcagcat ctctggtctc gggataacca ggccctcccc aggcggcaga actccggccg 1080

```

tacctcgcag	cagctggtcc	gtggcaccoca	tggatatgtcc	cattcatgca	gtgcctttcc	1140
agcctcttcc	agaaagaatt	taattcacco	gttcgcatat	gaccacggga	gaatcgcttg	1200
aacctgggag	acggagggtg	cagttagcca	tgatcgacc	actgcactcc	agcctaggcg	1260
acagggcaag	actctgtctc	aaaacaaaaa	aaaaaaaaaa	aaaaggagaa	atttccagaa	1320
caggcagatc	cacagagaat	atgcatggat	gtgtggttgg	aggagacggg	ggtgactgct	1380
aatgcggacg	gggtttccat	ttaaggcgat	gaaacagttc	tggaattcag	ccagcacagt	1440
ggctcacacc	tgtaatctca	gcaacctggg	agtccgaggt	ggggggattg	cttgagacca	1500
ggagttcaag	accagcctgg	gcaatatagt	gagaccccat	ctctagaaga	aaagaatttt	1560
aagttagccg	tgcatgctgg	ttcatgtctg	cagccccagc	tactctggag	gctgagatgg	1620
gaggatcgct	tgagcccagg	aattcaaggc	ttcaccgaga	taaggagggtg	ccactgtagt	1680
ccggcctggg	caacagatcg	ttaactctt				1709

<210> 11007  
 <211> 2297  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (78).. (1337)

<400> 11007						
agcctcgggg	cttgacggga	ttgtggcggt	cctctctccc	aattcggaag	ctacagctac	60
ctccggacgc	tctcaagatg	gcgacctctc	tgggttccaa	cacctacaac	aggcagaact	120
gggaggatgc	ggacttcccc	attctgtgcc	agacatgtct	tggagaaaac	ccatatatcc	180
gaatgaccaa	agaaaagtat	gggaaggaat	gcaaaatctg	tgccaggcca	ttcacagtgt	240
ttcgctgggtg	ccctggagtc	cgcatgcgtt	tcaagaagac	tgaagtgtgc	caaacctgca	300
gtaaatlgaa	gaatgtctgt	cagacctgcc	tcttagacct	agagtatggc	ctgcccattc	360
aggttcgtga	cgcaggattg	tcttttaaag	atgacatgcc	aaagtcagat	gtcaacaaag	420
agtactatac	acagaatatg	gagagagaga	tttctaactc	tgatggaaca	cggccagttg	480
gcatgctggg	gaaagccaca	tctaccagtg	acatgctgct	caaactggcc	cggaccacac	540
cctactacaa	aaggaatcga	ccccacattt	gctccttctg	ggtgaaagga	gagtgtgaag	600
gaggagagga	atgtccatac	agacatgaga	agcctacaga	tccagatgac	ccccttgctg	660
atcagaatat	taaagaccgt	tattacggaa	tcaatgatcc	tgtagctgac	aagcttctaa	720
agcgggcttc	aacaatgcct	cggctggacc	caccagagga	taaaactatc	accacactat	780
atgttggtgg	tctaggtgat	accattactg	agacagattt	aagaaatcat	ttctaccagt	840
tccgagagat	ccggacgatc	actgttgtgc	agagacagca	gtgtgctttc	atccagtttg	900
ccacacggca	ggctgcagaa	gtggctgctg	agaagtcctt	taataagttg	attgtaaatg	960
gccgcagact	gaatgtgaaa	tggggaagat	cccaggcagc	cagaggaaaa	gaaaaagaga	1020
aagatggaac	tacagactct	gggatcaaac	tagaacctgt	tccaggattg	ccaggagctc	1080
ttcctctctc	tcctgcagca	gaagaagaag	cctctgccaa	ctacttcaac	ttgcccccaa	1140
gtggctctcc	agctgtgggtg	aacattgtct	tgccaccgcc	ccctggcatt	gctccacccc	1200
cacccccagg	ttttgggcca	cacatgttcc	acccaatggg	accaccccct	cctttcatgc	1260
gggctccagg	accaatccac	tatcctttct	aggaccctca	gaggatggga	gctcatgctg	1320
gaaaacacag	cagcccctag	caccttgtca	ccactctggg	gctctgtgga	agaaagggca	1380
cttaaaaactc	ccagtaaatc	ttggaataaa	tatatTTTTT	cttccttgtg	agtttccatg	1440
gtagctgaat	gtgctcagat	gtgagcagtc	agagactgac	agccatgctt	tcctatactt	1500

```

gttcaaagga tcgatggacc gtaaataagc tgccattaac acatctgggt actgctgtaa 1560
catgactaat aaaaccgaac gcctgttccc cttaccogtg tggggggacac gcagatgagt 1620
gaattggaat gtccagcaga gttaccctcc caattatatg ttcattttgt atatTTTTTg 1680
gtcgggggaa aaattgacct gcagtaaaaa aacctttgac catttttatg tccattggat 1740
actttccttt ttatcatctt aaaaaaagat aactagtact aatcattgta gtggcctaag 1800
tgtgatttaa ctcttgaagt cacaccctcc gaaagatgag tagaaaccag caccagcaca 1860
gccagatct tctctttcct ctccttttcc tcattttatt ctaaaggaat ctgaccattt 1920
tacgtctcta cggcccaaaa aaagacaaaa ataaaaattc ctttttattc ctgtcaactg 1980
gatggaaaca caaatttcat ggagctgtgt accatcgaag aaacctgggt tctggcatga 2040
aattactgta aagaacttcc tgtaaaacac gttctttaac aaactgaaat gaaaagcatt 2100
ggagcgtctg aatgaaagac gtgacctcct gctgggactc tgatggtcct cagcattcac 2160
cttcgtgtgt cttcagtgtc tcattgtcat cctgtcttct gtttgggtct agagtgtttg 2220
gatataactg aattgtagat ggtaaaggaa atttgatgtg ttttttgttt ttaaataatt 2280
aaaacgggtc aattttt                                     2297

```

<210> 11008  
 <211> 420  
 <212> PRT  
 <213> Homo sapiens

<400> 11008

Met	Ala	Thr	Ser	Leu	Gly	Ser	Asn	Thr	Tyr	Asn	Arg	Gln	Asn	Trp	Glu
1				5					10					15	
Asp	Ala	Asp	Phe	Pro	Ile	Leu	Cys	Gln	Thr	Cys	Leu	Gly	Glu	Asn	Pro
			20					25					30		
Tyr	Ile	Arg	Met	Thr	Lys	Glu	Lys	Tyr	Gly	Lys	Glu	Cys	Lys	Ile	Cys
			35				40					45			
Ala	Arg	Pro	Phe	Thr	Val	Phe	Arg	Trp	Cys	Pro	Gly	Val	Arg	Met	Arg
			50			55					60				
Phe	Lys	Lys	Thr	Glu	Val	Cys	Gln	Thr	Cys	Ser	Lys	Leu	Lys	Asn	Val
				70					75					80	
Cys	Gln	Thr	Cys	Leu	Leu	Asp	Leu	Glu	Tyr	Gly	Leu	Pro	Ile	Gln	Val
				85					90					95	
Arg	Asp	Ala	Gly	Leu	Ser	Phe	Lys	Asp	Asp	Met	Pro	Lys	Ser	Asp	Val
			100					105					110		
Asn	Lys	Glu	Tyr	Tyr	Thr	Gln	Asn	Met	Glu	Arg	Glu	Ile	Ser	Asn	Ser
			115				120					125			
Asp	Gly	Thr	Arg	Pro	Val	Gly	Met	Leu	Gly	Lys	Ala	Thr	Ser	Thr	Ser
			130			135					140				
Asp	Met	Leu	Leu	Lys	Leu	Ala	Arg	Thr	Thr	Pro	Tyr	Tyr	Lys	Arg	Asn
				150						155				160	
Arg	Pro	His	Ile	Cys	Ser	Phe	Trp	Val	Lys	Gly	Glu	Cys	Lys	Arg	Gly
				165					170					175	
Glu	Glu	Cys	Pro	Tyr	Arg	His	Glu	Lys	Pro	Thr	Asp	Pro	Asp	Asp	Pro
			180					185					190		
Leu	Ala	Asp	Gln	Asn	Ile	Lys	Asp	Arg	Tyr	Tyr	Gly	Ile	Asn	Asp	Pro
			195				200						205		

09629469.072800

Val Ala Asp Lys Leu Leu Lys Arg Ala Ser Thr Met Pro Arg Leu Asp  
 210 215 220  
 Pro Pro Glu Asp Lys Thr Ile Thr Thr Leu Tyr Val Gly Gly Leu Gly  
 225 230 235 240  
 Asp Thr Ile Thr Glu Thr Asp Leu Arg Asn His Phe Tyr Gln Phe Gly  
 245 250 255  
 Glu Ile Arg Thr Ile Thr Val Val Gln Arg Gln Gln Cys Ala Phe Ile  
 260 265 270  
 Gln Phe Ala Thr Arg Gln Ala Ala Glu Val Ala Ala Glu Lys Ser Phe  
 275 280 285  
 Asn Lys Leu Ile Val Asn Gly Arg Arg Leu Asn Val Lys Trp Gly Arg  
 290 295 300  
 Ser Gln Ala Ala Arg Gly Lys Glu Lys Glu Lys Asp Gly Thr Thr Asp  
 305 310 315 320  
 Ser Gly Ile Lys Leu Glu Pro Val Pro Gly Leu Pro Gly Ala Leu Pro  
 325 330 335  
 Pro Pro Pro Ala Ala Glu Glu Glu Ala Ser Ala Asn Tyr Phe Asn Leu  
 340 345 350  
 Pro Pro Ser Gly Pro Pro Ala Val Val Asn Ile Ala Leu Pro Pro Pro  
 355 360 365  
 Pro Gly Ile Ala Pro Pro Pro Pro Gly Phe Gly Pro His Met Phe  
 370 375 380  
 His Pro Met Gly Pro Pro Pro Pro Phe Met Arg Ala Pro Gly Pro Ile  
 385 390 395 400  
 His Tyr Pro Ser Gln Asp Pro Gln Arg Met Gly Ala His Ala Gly Lys  
 405 410 415  
 His Ser Ser Pro  
 420

<210> 11009  
 <211> 1244  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (35).. (1102)

<400> 11009  
 tcgttggttc cggaggtcgc tgcggcgggtg ggaaatgctg ggcgcgcgcgg cgcggggcac 60  
 tggggccctt ttgctgaggg gctctctact ggcttctggc cgcgctccgc gccgcgcctc 120  
 ctctggattg ccccgaaaca ccgtggtact gttcgtgccg cagcaggagg cctgggtggt 180  
 ggagcgaatg ggccgattcc accggatcct ggagcctggt ttgaacatcc tcctccctgt 240  
 gttagaccgg atccgatatg tgcagagtct caaggaaatt gtcacaaacg tgcctgagca 300  
 gtcggctgtg actctcgaca atgtaactct gcaaatacat ggagtccttt acctgcgcac 360  
 catggaccct tacaaggcaa gctacgggtg ggaggaccct gagtatgccc tcaccagct 420  
 agctcaaaca accatgagat cagagctcgg caaactctct ctggacaaag tcttccggga 480

00629469.072800

```

acgggagtc ctgaatgcc gcatgttgga tgcacatcaac caagctgctg actgctgggg 540
tatccgctgc ctccgttatg agatcaagga tatccatgtg ccaccccggg tgaaagagtc 600
tatgcagatg caggtggagg cagagcggcg gaaacgggco acagttctag agtctgaggg 660
gacccgagag tggccatca atgtggcaga aggggaagaaa caggcccaga tcctggcctc 720
cgaagcagaa aaggctgaac agataaatca ggcagcagga gaggccagtg cagttctggc 780
gaaggccaag gctaaagctg aagctattcg aatcctggct gcagctctga cacaacataa 840
tggagatgca gcagcttcac tgactgtggc cgagcagtat gtcagcgcgt tctccaaact 900
ggccaaggac tccaacacta tcctactgcc ctccaacctt ggcatgtca ccagcatggt 960
ggctcaggcc atgggtgtat atggagccct caccaaagcc ccagtgcggg ggactccaga 1020
ctcactctcc agtgggagca gcagagatgt ccagggtaca gatgcaagtc ttgatgagga 1080
acttgatcga gtcaagatga gttagtggag ctgggcttgg ccaggggagtc tggggacaag 1140
gaagcagatt ttctgattc tggctctagc ttccctgcca agatttttgg ttttattttt 1200
ttatttgaac tttagtctgt taataaactc accagtggca aacc 1244

```

<210> 11010  
 <211> 356  
 <212> PRT  
 <213> Homo sapiens

<400> 11010

Met	Leu	Ala	Arg	Ala	Ala	Arg	Gly	Thr	Gly	Ala	Leu	Leu	Leu	Arg	Gly
1				5					10					15	
Ser	Leu	Leu	Ala	Ser	Gly	Arg	Ala	Pro	Arg	Arg	Ala	Ser	Ser	Gly	Leu
			20					25					30		
Pro	Arg	Asn	Thr	Val	Val	Leu	Phe	Val	Pro	Gln	Gln	Glu	Ala	Trp	Val
			35				40					45			
Val	Glu	Arg	Met	Gly	Arg	Phe	His	Arg	Ile	Leu	Glu	Pro	Gly	Leu	Asn
	50				55					60					
Ile	Leu	Ile	Pro	Val	Leu	Asp	Arg	Ile	Arg	Tyr	Val	Gln	Ser	Leu	Lys
65					70				75					80	
Glu	Ile	Val	Ile	Asn	Val	Pro	Glu	Gln	Ser	Ala	Val	Thr	Leu	Asp	Asn
				85				90						95	
Val	Thr	Leu	Gln	Ile	Asp	Gly	Val	Leu	Tyr	Leu	Arg	Ile	Met	Asp	Pro
			100				105						110		
Tyr	Lys	Ala	Ser	Tyr	Gly	Val	Glu	Asp	Pro	Glu	Tyr	Ala	Val	Thr	Gln
		115				120						125			
Leu	Ala	Gln	Thr	Thr	Met	Arg	Ser	Glu	Leu	Gly	Lys	Leu	Ser	Leu	Asp
	130					135					140				
Lys	Val	Phe	Arg	Glu	Arg	Glu	Ser	Leu	Asn	Ala	Ser	Ile	Val	Asp	Ala
145					150					155				160	
Ile	Asn	Gln	Ala	Ala	Asp	Cys	Trp	Gly	Ile	Arg	Cys	Leu	Arg	Tyr	Glu
				165				170						175	
Ile	Lys	Asp	Ile	His	Val	Pro	Pro	Arg	Val	Lys	Glu	Ser	Met	Gln	Met
		180					185						190		
Gln	Val	Glu	Ala	Glu	Arg	Arg	Lys	Arg	Ala	Thr	Val	Leu	Glu	Ser	Glu
		195				200						205			
Gly	Thr	Arg	Glu	Ser	Ala	Ile	Asn	Val	Ala	Glu	Gly	Lys	Lys	Gln	Ala

-4472/13211-

210 215 220  
Gln Ile Leu Ala Ser Glu Ala Glu Lys Ala Glu Gln Ile Asn Gln Ala  
225 230 235 240  
Ala Gly Glu Ala Ser Ala Val Leu Ala Lys Ala Lys Ala Lys Ala Glu  
245 250 255  
Ala Ile Arg Ile Leu Ala Ala Ala Leu Thr Gln His Asn Gly Asp Ala  
260 265 270  
Ala Ala Ser Leu Thr Val Ala Glu Gln Tyr Val Ser Ala Phe Ser Lys  
275 280 285  
Leu Ala Lys Asp Ser Asn Thr Ile Leu Leu Pro Ser Asn Pro Gly Asp  
290 295 300  
Val Thr Ser Met Val Ala Gln Ala Met Gly Val Tyr Gly Ala Leu Thr  
305 310 315 320  
Lys Ala Pro Val Pro Gly Thr Pro Asp Ser Leu Ser Ser Gly Ser Ser  
325 330 335  
Arg Asp Val Gln Gly Thr Asp Ala Ser Leu Asp Glu Glu Leu Asp Arg  
340 345 350  
Val Lys Met Ser  
355

<210> 11011  
<211> 759  
<212> DNA  
<213> Homo sapiens

<400> 11011  
atattccatg gagaccctgg ctggaggatt gcaggagagt cccaggaggc aggactgccca 60  
atggcaccag gcttcgcagc catgcacctg cagccctcag gcagcactgt ccattgtcat 120  
acgagtgtgg caggtgtgag gcacgcacac tgcctacccc ggggataatg cacagcagct 180  
acaggcagat ttcggggccag agagcaaccg agtgagcctt gcagcctctg ctgccagcac 240  
aggcttggtc cttcaacact ggtggagaga gacacgctgt catcaggccc aagaaatact 300  
gccttccccca tcctatcccc ggtcactggg tgcccgcaga gtgtcccaga ggagggaggg 360  
agggaccctc cactggttca aatggcctgt tctcagagat gcagcaatgg accctcgtga 420  
atactgaact gataatcatg ggaaggagac tggctctcct ggattccctc atgattcctc 480  
tgagtgacaa tgtgatgttg gccgactgtg tcttcttcag aatatcatat acacttgagg 540  
tctccaggag cctccaatta cattattttc ctggctcata cagtgacaag taattcttat 600  
cctggattcc tcgttactga gacttttctt gccttttttg ttagcttatg atttattcta 660  
ggacttcctc caacaggtta tacttaactg tctacctcag tctctggaag ttttaaaaat 720  
gttcagctaa ataaaagaag tagattctcc ctggaacc 759

<210> 11012  
<211> 771  
<212> DNA  
<213> Homo sapiens

<220>

008220 69462960

<221> CDS

<222> (63).. (506)

<400> 11012

```
gtcactgcaa ggcgccgggg gacacgttgg ctgcgttttc ggcgggcttc ccgggtacaa 60
aaatggctgt ggctagcgat ttctacctgc gctactacgt agggcacaag ggcaagtttg 120
ggcacgagtt tctggagtgc gaatttcggc cggacggaaa gcttagatat gccaacaaca 180
gcaattacaa aaatgatgtg atgatacaga aagaggctta tgtgcacaag agtgtaatgg 240
aagaactgaa gagaattatt gatgacagtg aaattacaaa agaagatgat gctttgtggc 300
ctccccctga tagggttggc cgacaggagc ttgaaattgt aattggagat gagcacatat 360
cttttaccac atcaaaaata ggttctctta ttgatgtaaa tcagtcaaag gatcctgaag 420
gccttcgagt attttactat ttggtacaag acttgaaatg tttagttttc agtcttattg 480
gattacactt caagattaaa ccaattttaa ttgtatgttt tcaggctgtt tgtatatatta 540
attaagggat gggaggggtt atttgtcatt tacagtattg gggtttttat gaatgtgaag 600
caaacaaaaa aaatttgtat gtaaactgaa aataagaaaa tacattagca agcttaatgg 660
ttatccttac ttgagtccac atgggttggc cagtcgccac acacattaaa ttctgtaaat 720
gaaagccacc ttttgttaaa aatttgctct aataaaacat accaaatcct g 771
```

<210> 11013

<211> 148

<212> PRT

<213> Homo sapiens

<400> 11013

```
Met Ala Val Ala Ser Asp Phe Tyr Leu Arg Tyr Tyr Val Gly His Lys
  1             5             10             15
Gly Lys Phe Gly His Glu Phe Leu Glu Phe Glu Phe Arg Pro Asp Gly
             20             25             30
Lys Leu Arg Tyr Ala Asn Asn Ser Asn Tyr Lys Asn Asp Val Met Ile
             35             40             45
Arg Lys Glu Ala Tyr Val His Lys Ser Val Met Glu Glu Leu Lys Arg
             50             55             60
Ile Ile Asp Asp Ser Glu Ile Thr Lys Glu Asp Asp Ala Leu Trp Pro
             65             70             75             80
Pro Pro Asp Arg Val Gly Arg Gln Glu Leu Glu Ile Val Ile Gly Asp
             85             90             95
Glu His Ile Ser Phe Thr Thr Ser Lys Ile Gly Ser Leu Ile Asp Val
             100            105            110
Asn Gln Ser Lys Asp Pro Glu Gly Leu Arg Val Phe Tyr Tyr Leu Val
             115            120            125
Gln Asp Leu Lys Cys Leu Val Phe Ser Leu Ile Gly Leu His Phe Lys
             130            135            140
Ile Lys Pro Ile
145
```

<210> 11014

000220"072800



<211> 1309  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (127).. (531)

<400> 11014

```
aacaagaggg gtcaagtgac acaaccagct gactcccgtg gaggaagaca ctgtggaggc 60
cagttctgga gctattgcag cctcggttgc cgggccgggg acccgagccg aaaagtatc 120
gtcagaatgt cgggcaaaga ccgaattgaa atctttccct cgcgaatggc acagaccatc 180
atgaaggctc gtttaaaggg agcacagaca ggtcgaaacc tcctgaagaa aaaatctgat 240
gccataactc ttcgatttcg acagatccta aagaagataa tagagactaa aatgttgatg 300
ggcgaagtga tgagagaagc tgccttttca ctagctgaag ccaagttcac agcagggtgac 360
ttcagcacta cagttatcca aaatgtcaat aaagcgcaag tgaagattcg agcgaagaaa 420
gataatgtag caggtgttac tttgccagta tttgaacatt accatgaagg ccaaagcagt 480
ggaactactg gtggaactag cttctctgca gacttctttt gttactttgg atgaagctat 540
taagataacc aacaggcgtg taaatgccat tgaacatgtc atcattcccc ggattgaacg 600
tactcttgct tatatcatca cagagctgga tgagagagag cgagaagggt tctataggtt 660
aaagaaaata caagagaaga aaaagattct aaaggaaaaa totgagaagg acttggagca 720
aaggagagca gctggagagg tgttggagcc tgctaattct ctggctgaag agaaggacga 780
ggatcttcta tttgaataat ctttcctgtt ctggttcttt gagaaaccct aacactggct 840
tcattttaat tcacagtgtg taggtttgat ttgtgtggct atttattttt tggcctaaga 900
atttcactgg ttgtaaaatt tacctagatg tctatttatg ggattacttt tgcagaatca 960
taatttagca accatttato atggatgaaa gagatacctt tgggagatgt acagcagaaa 1020
aaaaggagaa atgaagactg gagaaacaaa atatgttata tatttgccaa taattcacat 1080
gctgcctcag tgcctcaga tcccaggctg cacataaggt ccatttgcct gagtattatt 1140
acatacctcc ttctccagaa aactttcaag ttcacagcct tgcgttgtcc atctttaata 1200
cacttagttg ttggttttaa taattaagga aacaggacct acctatacct gtgccaacag 1260
ggggcactat ccctctgtaa agaacaaatc aaaaagtatt ttgtgttgt 1309
```

<210> 11015  
<211> 135  
<212> PRT  
<213> Homo sapiens

<400> 11015

```
Met Ser Gly Lys Asp Arg Ile Glu Ile Phe Pro Ser Arg Met Ala Gln
 1             5             10             15
Thr Ile Met Lys Ala Arg Leu Lys Gly Ala Gln Thr Gly Arg Asn Leu
      20             25             30
Leu Lys Lys Lys Ser Asp Ala Ile Thr Leu Arg Phe Arg Gln Ile Leu
      35             40             45
Lys Lys Ile Ile Glu Thr Lys Met Leu Met Gly Glu Val Met Arg Glu
      50             55             60
Ala Ala Phe Ser Leu Ala Glu Ala Lys Phe Thr Ala Gly Asp Phe Ser
```

09629459.072500

-4475/13211-

65 70 75 80  
Thr Thr Val Ile Gln Asn Val Asn Lys Ala Gln Val Lys Ile Arg Ala  
85 90 95  
Lys Lys Asp Asn Val Ala Gly Val Thr Leu Pro Val Phe Glu His Tyr  
100 105 110  
His Glu Gly Gln Ser Ser Gly Thr Thr Gly Gly Thr Ser Phe Ser Ala  
115 120 125  
Asp Phe Phe Cys Tyr Phe Gly  
130 135

<210> 11016  
<211> 499  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (21).. (497)

<400> 11016  
gacgcagtta gtcggctgca atggcgccgg tgaggcggtc cgogaagtgg cggcctggtg 60  
gtattgaggc gcgtggtgaa ggggtttcca ctgtcgggta caggaataag aatgtgagac 120  
agaagacatg gcggcctaac caccgcgaag ccttcgtggg gagcgttcgc gagggacaag 180  
gctttgcttt tcgaagaaaa ctgaaaatac agcaaagtta caagaaattg ctacggaagg 240  
aaaagaaggc tcaaactgca ctggaatctc aattcacaga tcgataccca gataatctga 300  
aacatctcta tttagctgaa gaggaagac ataggaagca agcaagaaaa gtgaccatc 360  
ctttgtcaga acaagttcac cagccgttgc ttgaagaaca gtgtagcatt gacgagcctt 420  
tatttgagaga tcagtgtagc tttgaccagc ctgagccaga agaacaatgt attaaaacag 480  
taaactcctt tacaattcc 499

<210> 11017  
<211> 159  
<212> PRT  
<213> Homo sapiens

<400> 11017  
Met Ala Pro Val Arg Arg Ser Ala Lys Trp Arg Pro Gly Gly Ile Glu  
1 5 10 15  
Ala Arg Gly Glu Gly Val Ser Thr Val Gly Tyr Arg Asn Lys Asn Val  
20 25 30  
Arg Gln Lys Thr Trp Arg Pro Asn His Pro Gln Ala Phe Val Gly Ser  
35 40 45  
Val Arg Glu Gly Gln Gly Phe Ala Phe Arg Arg Lys Leu Lys Ile Gln  
50 55 60  
Gln Ser Tyr Lys Lys Leu Arg Lys Glu Lys Lys Ala Gln Thr Ser  
65 70 75 80

09629469.072300

-4476/13211-

Leu Glu Ser Gln Phe Thr Asp Arg Tyr Pro Asp Asn Leu Lys His Leu  
85 90 95  
Tyr Leu Ala Glu Glu Glu Arg His Arg Lys Gln Ala Arg Lys Val Asp  
100 105 110  
His Pro Leu Ser Glu Gln Val His Gln Pro Leu Leu Glu Glu Gln Cys  
115 120 125  
Ser Ile Asp Glu Pro Leu Phe Gly Asp Gln Cys Ser Phe Asp Gln Pro  
130 135 140  
Gln Pro Glu Glu Gln Cys Ile Lys Thr Val Asn Ser Phe Thr Ile  
145 150 155

<210> 11018  
<211> 925  
<212> DNA  
<213> Homo sapiens

<400> 11018  
cacagctatg aataagcttt caggttttat taaaacctag aggaaaaaat caggaatgac 60  
ctgaatctca acccaaatat taaacaaaat ccacataatc cctcatttca atttccaatt 120  
ccattaaggg accctctctt tttggatggc agagatgggt ttttaatgaa atcccaccat 180  
ctatctgagt gagtctggca ggcttttttag ttcttgaggt aaatttgtaa tagaaccaag 240  
gcaatgctgc tgactttgat atgtatgact cagtctttca atatgtgggt ttcaaaaaat 300  
tgttgaagac gtgacttcat agcaatatat agagaataaa ttaaaatcag cagattgagt 360  
tttcaacatt gcaaaatcag ttttttacct ctttctacc aatttcacat ttgcagaaa 420  
cttgttcaca tttccaacaa tatcagaatt agaaaacagt tcagataaca agaaagatta 480  
agaattaggg aaattctgat atcaccataa agcactatit tacatttaga gattacattt 540  
aagataaagt catcatcac aaaaacaata aatatttata actttctcta taaggtcgcg 600  
atatactgta tatattgaaa caatctgaat gactagtaga tttcatatga ccattgttat 660  
ttccactttc tccaataact gtattttatg ctacatgtaa tgaagttgga cctttttatt 720  
atttagtaat tcctatatgt tcctatactt ttcatittca agatgattgc tctattgttt 780  
catgttggtt ctagcaatat atctccatga gatatgcact ctgtttcata ttgaaaagta 840  
taaaatttat ctttcaattc ctgtgtgtgt atcctatggg tatctgtatg tattattttc 900  
tattctaata aaatttataa caagc 925

<210> 11019  
<211> 798  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (136).. (441)

<400> 11019  
atcgctctcc cgggcttaga aggcccggt actgaacgoc agtgccagac cttaccctc 60  
acggctccta agtctcggtc gccctcgct cgcagcctgc caccgcgct cagctgccc 120

00629469.072600

cctcctcagc cagccatgct ggagcatctg agctcgtctg ccacgcagat ggattacaag 180  
ggccagaagc tagctgaaca gatgtttcag ggaattattc ttttttctgc aatagttgga 240  
tttatctacg ggtacgtggc tgaacagttc ggggtggaactg totatatagt tatggccgga 300  
tttgcttttt catgtttgct gacacttcct ccatggccca totatcgccg gcatcctctc 360  
aagtggttac ctgttcaaga atcaagcaca gacgacaaga aaccagggga aagaaaaatt 420  
aagaggcatg ctaaaaataa ttgaggtttt catgattcag cacctgcttt tgtttctgtg 480  
agatgagcta aattgctttc ataccacaga taagagctaa aaccaccta tgctcttatg 540  
gcacaactgt gtatagattt agttctcttt atacttcatt tctagcccag ttgggttttg 600  
atttatataa gtagtttaga ctttctcttc ataattcttg tctgagatgg ggaacagaac 660  
acacaagtat gaagtttctt tcagggtgtaa ataatgaaaa ataaatgcct cataaatgat 720  
agtacaatgt aactatcaaa gttttataat tcattatgag ttaaccattt taatgtttcc 780  
aattaaacct catagtgc 798

<210> 11020  
<211> 102  
<212> PRT  
<213> Homo sapiens

<400> 11020  
Met Leu Glu His Leu Ser Ser Leu Pro Thr Gln Met Asp Tyr Lys Gly  
1 5 10 15  
Gln Lys Leu Ala Glu Gln Met Phe Gln Gly Ile Ile Leu Phe Ser Ala  
20 25 30  
Ile Val Gly Phe Ile Tyr Gly Tyr Val Ala Glu Gln Phe Gly Trp Thr  
35 40 45  
Val Tyr Ile Val Met Ala Gly Phe Ala Phe Ser Cys Leu Leu Thr Leu  
50 55 60  
Pro Pro Trp Pro Ile Tyr Arg Arg His Pro Leu Lys Trp Leu Pro Val  
65 70 75 80  
Gln Glu Ser Ser Thr Asp Asp Lys Lys Pro Gly Glu Arg Lys Ile Lys  
85 90 95  
Arg His Ala Lys Asn Asn  
100

<210> 11021  
<211> 978  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (30).. (674)

<400> 11021  
tcttcggggt ggggccccgg gccgaggcga tggcgccctg ggogctcctc agccctgggg 60  
tcttggtgcg gaccgggcac accgtgctga cctggggaat cacgctggtg ctcttcctgc 120

008220 69462960

```

acgataccga gctgcgga gctgaggagc aggggggagct gctcctgccc ctcaccttcc 180
tgctcctggg gctgggctcc ctgctgctct acctcgctgt gtcactcatg gaccctggct 240
acgtgaatgt gcagccccag cctcaggagg agctcaaaga ggagcagaca gccatgggtc 300
ctccagccat ccctcttcgg cgctgcagat actgcctggg gctgcagccc ctgaggggctc 360
ggcactgccg tgagtggcgc cgttgcgctc gccgctacga ccaccactgc ccctggatgg 420
agaactgtgt gggagagcgc aaccacccac tctttgtggg ctacctggcg ctgcagctgg 480
tggtgcttct gtggggcctg tacctggcat ggtcaggcct ccggttcttc cagccctggg 540
gtctgtggtt gcgggtccagc gggctcctgt tcgccacctt cctgctgctg tcccacttct 600
tctgtggatg gccctcaggg tcttgggaga ccctctgggc tgaggaggag gaagagggca 660
gcagcccagc tgtttagggg tgctggaggc cgggctaccg tcttgtgcct gaaaaccacg 720
gggcctgtcc ccagctgggg tgagcgcctc gagggcctgg ggccctcact cctgcccacg 780
cctcccagac ccagaacgg agcttcaagt cagacagatc cctgccttgg tgggcagttc 840
tgcttccaa ggaagaagg gaagaaaagg acctgtgggt ggctcaggcc caagcagacc 900
ccgggctcca cccagcccc gccagggctg ctgccagtgc acacttttac aaatttaata 960
taaagcaagt ccagtctt
978

```

<210> 11022  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 11022

Met	Ala	Pro	Trp	Ala	Leu	Leu	Ser	Pro	Gly	Val	Leu	Val	Arg	Thr	Gly
1				5					10					15	
His	Thr	Val	Leu	Thr	Trp	Gly	Ile	Thr	Leu	Val	Leu	Phe	Leu	His	Asp
			20					25					30		
Thr	Glu	Leu	Arg	Gln	Trp	Glu	Glu	Gln	Gly	Glu	Leu	Leu	Leu	Pro	Leu
			35				40					45			
Thr	Phe	Leu	Leu	Leu	Val	Leu	Gly	Ser	Leu	Leu	Leu	Tyr	Leu	Ala	Val
	50				55						60				
Ser	Leu	Met	Asp	Pro	Gly	Tyr	Val	Asn	Val	Gln	Pro	Gln	Pro	Gln	Glu
65					70					75					80
Glu	Leu	Lys	Glu	Glu	Gln	Thr	Ala	Met	Val	Pro	Pro	Ala	Ile	Pro	Leu
			85						90					95	
Arg	Arg	Cys	Arg	Tyr	Cys	Leu	Val	Leu	Gln	Pro	Leu	Arg	Ala	Arg	His
			100					105					110		
Cys	Arg	Glu	Cys	Arg	Arg	Cys	Val	Arg	Arg	Tyr	Asp	His	His	Cys	Pro
	115					120						125			
Trp	Met	Glu	Asn	Cys	Val	Gly	Glu	Arg	Asn	His	Pro	Leu	Phe	Val	Val
	130				135						140				
Tyr	Leu	Ala	Leu	Gln	Leu	Val	Val	Leu	Leu	Trp	Gly	Leu	Tyr	Leu	Ala
145				150						155					160
Trp	Ser	Gly	Leu	Arg	Phe	Phe	Gln	Pro	Trp	Gly	Leu	Trp	Leu	Arg	Ser
			165					170					175		
Ser	Gly	Leu	Leu	Phe	Ala	Thr	Phe	Leu	Leu	Ser	His	Phe	Phe	Cys	
		180					185					190			
Gly	Trp	Pro	Ser	Gly	Ser	Trp	Glu	Thr	Leu	Trp	Ala	Glu	Glu	Glu	Glu

09620469.072800



-4480/13211-

```

      35              40              45
Glu Lys Ile Met Lys Leu Ala Ala Asn Ile Ser Gly Asp Lys Leu Val
      50              55              60
Ser Leu Gly Thr Cys Phe Gly Lys Phe Thr Glu Thr His Lys Phe Arg
      65              70              75              80
Leu His Val Thr Ala Leu Asp Tyr Leu Ala Pro Tyr Ala Lys Gly Phe
      85              90              95
Gly Val Ala Ala Lys Ser Thr Gln Asp Cys Arg Lys Val Asp Pro Met
      100              105              110
Ala Ile Val Val Phe His Gln Ala Asp Ile Gly Glu Tyr Val Arg His
      115              120              125
Glu Glu Thr Leu Thr
      130
```

<210> 11025  
<211> 1215  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (82).. (528)

<400> 11025

```

gacattttttg ggcggggggc cagcctgagc ggggacggcg gccgggaggg cgcgggcccg 60
gttcccgttc cccgcgggagc catgcggtac aacgagaagg agctgcaggc tctgtcccgg 120
cagccggccg agatggcggc cgagctgggc atgagggggc ccaagaaggg cagcgtgctg 180
aagcgggcggc tgggtgaagct ggtggtgaat ttctctttct actttcggac agacgaggcc 240
gagcccgtcg gagccctgct gctggagcgc tgcagagtcg tccgggaaga gcccggcacc 300
ttctccatca gcttcattga ggaccctgag aggaagtatc actttgagtg cagcagcgag 360
gagcagtgtc aggagtggat ggaggctctg cgtcggggcca gctacgagtt catgcggaga 420
agcctcatct tctacaggaa cgaaatccgg aaggtagcgg gcaaggaccc cctggaacag 480
ttcggcatat ccgaggaggc caggttccag ctgagtggct tgcaggcgtg agcgaggggc 540
acggtggtca gcgtgcagcg ggacgggact ggccctgccc agccatgaat cgcttgcca 600
tgcctggatc tgttttgttt tggtttttgg tttttgggtc agggcttcac tgtgttgccc 660
aggctagagt gcagtgggtc cacagctcac tgtgaccttg accttctgga ctcaagtgat 720
cctcctgcct cagcttccca agtagcgggg atcacaggca tgagccgcca caccggcca 780
tcacacctgg attttcagtg ggaggttttt ggtttggaga catccaaagc ctgaagccag 840
gtgggtgttg gcaggggctg cattttatga aactgcccag caagctgcgc tccctggggc 900
cccaggatcc acctaacctg cctggcacct ggtgccacgt gctgctgccg ccaggatatg 960
cgcttccca caggtgccct gcctgagttg tgtgcatcca ggggcctggt gagccccag 1020
gctggtggca tggccccctt gcccgtgct gaatgaatgt acagagccag acaaagctgt 1080
gaatggccta ggggctgagt cccacaccag ctgtgaattc tcctgcagac aggaggccc 1140
tggctgtgca cctggggaag tggttgccct ggggccaggg tgcttgttct gttcaaataa 1200
aggtacctct tttcc                                     1215
```

00629469 072800

<210> 11026  
<211> 149  
<212> PRT  
<213> Homo sapiens

<400> 11026  
Met Arg Tyr Asn Glu Lys Glu Leu Gln Ala Leu Ser Arg Gln Pro Ala  
1 5 10 15  
Glu Met Ala Ala Glu Leu Gly Met Arg Gly Pro Lys Lys Gly Ser Val  
20 25 30  
Leu Lys Arg Arg Leu Val Lys Leu Val Val Asn Phe Leu Phe Tyr Phe  
35 40 45  
Arg Thr Asp Glu Ala Glu Pro Val Gly Ala Leu Leu Glu Arg Cys  
50 55 60  
Arg Val Val Arg Glu Glu Pro Gly Thr Phe Ser Ile Ser Phe Ile Glu  
65 70 75 80  
Asp Pro Glu Arg Lys Tyr His Phe Glu Cys Ser Ser Glu Glu Gln Cys  
85 90 95  
Gln Glu Trp Met Glu Ala Leu Arg Arg Ala Ser Tyr Glu Phe Met Arg  
100 105 110  
Arg Ser Leu Ile Phe Tyr Arg Asn Glu Ile Arg Lys Val Thr Gly Lys  
115 120 125  
Asp Pro Leu Glu Gln Phe Gly Ile Ser Glu Glu Ala Arg Phe Gln Leu  
130 135 140  
Ser Gly Leu Gln Ala  
145

<210> 11027  
<211> 2221  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (266).. (1456)

<400> 11027  
gcttgctaac cacaaaaccc gccaggccgg tgcgggagct gcggagcatc cgctgcggtc 60  
ctcgccgaga ccccgcgcg gattcgccgg tccttccgc gggcgcgaca gagctgtcct 120  
cgcacctgga tgacagcagg ggcgccgggg tcctctcgac gccagagaga aatctcatca 180  
tccgtgcagc cttcttaaag caaactaaga ccagagggag gattatcctt gacctttgaa 240  
gacaaaaact aaactgaaat ttaaaatggt cttcggggga gaaggagct tgacttacac 300  
tttgggaatc agaggcaatg agcccgtata tacttcaact caagaagact gcattaattc 360  
ttgctgttca acaaaaaaca tatcagggga caaagcatgt aacttgatga tcttcgacac 420  
tcgaaaaaca gctagacaac ccaactgcta cctatttttc tgtccaacg aggaagcctg 480  
tccattgaaa ccagcaaaag gacttatgag ttacaggata attacagatt ttccatcttt 540  
gaccagaaat ttgccaagcc aagagttacc ccaggaagat tctctcttac atggccaatt 600

09629469.072800





-4483/13211-

```

Pro Ser Gln Glu Leu Pro Gln Glu Asp Ser Leu Leu His Gly Gln Phe
      100      105      110
Ser Gln Ala Val Thr Pro Leu Ala His His His Thr Asp Tyr Ser Lys
      115      120      125
Pro Thr Asp Ile Ser Trp Arg Asp Thr Leu Ser Gln Lys Phe Gly Ser
      130      135      140
Ser Asp His Leu Glu Lys Leu Phe Lys Met Asp Glu Ala Ser Ala Gln
145      150      155      160
Leu Leu Ala Tyr Lys Glu Lys Gly His Ser Gln Ser Ser Gln Phe Ser
      165      170      175
Ser Asp Gln Glu Ile Ala His Leu Leu Pro Glu Asn Val Ser Ala Leu
      180      185      190
Pro Ala Thr Val Ala Val Ala Ser Pro His Thr Thr Ser Ala Thr Pro
      195      200      205
Lys Pro Ala Thr Leu Leu Pro Thr Asn Ala Ser Val Thr Pro Ser Gly
      210      215      220
Thr Ser Gln Pro Gln Leu Ala Thr Thr Ala Pro Pro Val Thr Thr Val
225      230      235      240
Thr Ser Gln Pro Pro Thr Thr Leu Ile Ser Thr Val Phe Thr Arg Ala
      245      250      255
Ala Ala Thr Leu Gln Ala Met Ala Thr Thr Ala Val Leu Thr Thr Thr
      260      265      270
Phe Gln Ala Pro Thr Asp Ser Lys Gly Ser Leu Glu Thr Ile Pro Phe
      275      280      285
Thr Glu Ile Ser Asn Leu Thr Leu Asn Thr Gly Asn Val Tyr Asn Pro
      290      295      300
Thr Ala Leu Ser Met Ser Asn Val Glu Ser Ser Thr Met Asn Lys Thr
305      310      315      320
Ala Ser Trp Glu Gly Arg Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly
      325      330      335
Ser Val Pro Glu Asn Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu
      340      345      350
Ile Gly Ser Leu Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val
      355      360      365
Leu Leu Gly Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser
      370      375      380
Arg Leu Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile
385      390      395

```

<210> 11029

<211> 1739

<212> DNA

<213> Homo sapiens

<400> 11029

gagtcctotga ggaaggaatg tgatttggca gtcagggtac taagcatggg tgggaactcc 60  
tgcocttataa aaattgtttt tgtgttctta agataatat gttgtttttc tgttttttgt 120

000220" 69462960



```

aaggccggtg tgctggacgg cagattccac tacggcactg cgtttggagg cagtaaagtg 600
aaggatgtgt gtgaggacct cgtttgccat ggttataact acttggggaa agactatgtt 660
acatccggca tcacaggtga gcccttagaa gcatacatct attttggccc cgtgtactat 720
cagaagctga aacacatggt gctagataaa atgcatgccc gggcccgggg cccacgagcc 780
gtccattacca ggcaaccacac tgaaggacgg tctcgtgatg gtggcttgcg tctcggggaa 840
atggaacgtg actgtttaat cggttatgga gccagtatgc ttttgctaga gagactaatg 900
atttcaagtg atgcctttga ggttgatgtc tgtgggcagt gtggacttct ggggtattct 960
ggctggtgcc attactgcaa gtcctcctgc cagtgctctt cctccgtat tccgtatgcc 1020
tgcaagctgc tcttcagga actacagtct atgaacatca tcccaggtt aaaactgtcc 1080
aagtacaatg aatgaggatg gaaaaaatga ttattaaaga gaacgagtga tacatccaat 1140
gcaacggaaa gcagaaggga tttaggacta cgtctcctcc tgtgaagaat tcccttgctg 1200
attctctctc taaaacaacc aaaaaaaaaa ggagaggctt tttatatact ctaagactgg 1260
ctaaacaacc ttgatcattg agcctcgagc catgggagag atgctgacca tgtggactgc 1320
aaggctgctt gattcacaga tggatgtgac ctaaaggata aataagctat tacttatgtg 1380
ctgatctctt gacattcact cattagaaga cttactcct tcaagcaaat gtttggggtc 1440
aaatttacca tatcttctgg ctaaccatat tcaagattct tctgaaactt ggaggatgta 1500
aagaatccat ttgatttggc cagcctggct tttgtcgtgg tggctggctc ggataaattt 1560
tccaacaat taaatcttgc ctttacacac caaactttg taattttagt cttggtgaaa 1620
tataatgaat ttgttcctac cttgtc                                     1646

```

<210> 11031  
 <211> 343  
 <212> PRT  
 <213> Homo sapiens

<400> 11031

Met	Gly	Pro	Met	Leu	Asp	Ala	Ala	Thr	Arg	Lys	Pro	Ile	Trp	Arg	His
1				5				10					15		
Glu	Ile	Leu	Asp	Ala	Asp	Gly	Ile	Cys	Ser	Pro	Gly	Glu	Lys	Val	Glu
			20					25					30		
Asn	Lys	Gln	Val	Leu	Val	Asn	Lys	Ser	Met	Pro	Thr	Val	Thr	Gln	Ile
			35					40					45		
Pro	Leu	Glu	Gly	Ser	Asn	Val	Pro	Gln	Gln	Pro	Gln	Tyr	Lys	Asp	Val
			50					55				60			
Pro	Ile	Thr	Tyr	Lys	Gly	Ala	Thr	Asp	Ser	Tyr	Ile	Glu	Lys	Val	Met
					70					75					80
Ile	Ser	Ser	Asn	Ala	Glu	Asp	Ala	Phe	Leu	Ile	Lys	Met	Leu	Leu	Arg
				85					90					95	
Gln	Thr	Arg	Arg	Pro	Glu	Ile	Gly	Asp	Lys	Phe	Ser	Ser	Arg	His	Gly
				100				105					110		
Gln	Lys	Gly	Val	Cys	Gly	Leu	Ile	Val	Pro	Gln	Glu	Asp	Met	Pro	Phe
			115					120				125			
Cys	Asp	Ser	Gly	Ile	Cys	Pro	Asp	Ile	Ile	Met	Asn	Pro	His	Gly	Phe
			130				135				140				
Pro	Ser	Arg	Met	Thr	Val	Gly	Lys	Leu	Ile	Glu	Leu	Leu	Ala	Gly	Lys
					150					155					160
Ala	Gly	Val	Leu	Asp	Gly	Arg	Phe	His	Tyr	Gly	Thr	Ala	Phe	Gly	Gly

00629469.072800





Gly Ser Phe Leu Ala Leu Val Leu Ala Arg Ala Ser Gly Ser Ile Asp  
 225 230 235 240  
 Ile Gln His Leu Lys Arg Arg Trp Ala Ala Pro Glu Val Asp Glu Cys  
 245 250 255  
 Asn Arg Leu Arg Leu Leu Leu Gln Glu Ala Leu Trp Pro Glu Gly Lys  
 260 265 270  
 Leu His Lys  
 275

<210> 11034  
 <211> 1298  
 <212> DNA  
 <213> Homo sapiens

<400> 11034  
 tttttttag agatgagctc tcactatgtc acccaggttc gtotcaaaact cctgaaccct 60  
 agtaattctc ctatctcagc ctcccaaagt gctaggggta cagacatgag ccactgtgcc 120  
 tgtctagact tgtactttca actgtccatt tctccctgtc tgtcccatgg gcactcatga 180  
 aaaaacagaa tgctcccaac tttattcatc ttccaagcct gtagctcttg gtatactcac 240  
 tgttgcaagt cagaagcttg atttcatcat tgatgttttt ctacagtttc acatctcact 300  
 catcaccaag tcatgttggt gtttaatttct gattaaccct tgaatttacc gtcttctcat 360  
 cctctgtaca aaagcctcaa gtgagggtca aattcaacat tctcctgac tagacagccc 420  
 ccattctcaa tccacccttt tccaagttga ttgccaagg acttctaaca ataaactctc 480  
 ttttgacca cagacttctt tgaaaatata catgctgttg accctctctg tagaaaaccg 540  
 cacacataaa acttaccac agatttcatt gggtcttggg ttctcccgaa gcctatccat 600  
 gggttataga ttaagaattg atgaggtagc tgggcacagt ggctcacacc tacgatcaca 660  
 gcacttcggg aggctgaagc aagcagatca cttagaggtca ggagtttgag accagcctgg 720  
 ccaacatggg gaaaccctgt ctctactaaa aatacaaaaa gtagccagcc gtgatgacag 780  
 gcacctgtaa tcccagctac tcgggaggct gaggcattgag aattgcctga acccgggagg 840  
 cggagggttc agtgggcctg gatcatgcca ctgcaactca gcctgggcag cagagcaaga 900  
 ctctgtctca aaaggggaaa aaaaaaattg ctgatgtgac ccatgaaggg aactcatttt 960  
 cctcgtaatt ttggactgcc acacattggg accttagtt ctctgaaggc ccacgttttt 1020  
 atcattaaga cctatttgtt agctagtaga gctttatgtt cgctgtccat gaaaccttct 1080  
 gtaaccacag tgactacgag tagttctttc tctattgaat tattagggtc agaatagaag 1140  
 atgtcattgt acactttatt tccctcacac tgtgttatgc totgatgtgc tatgcttagc 1200  
 tatctgtcag agattagtaa attataaaac tcatgtgtac tacttaagtt tatactttat 1260  
 gctagtttat aagaacaatt aaaaggactt agaagatt 1298

<210> 11035  
 <211> 1149  
 <212> DNA  
 <213> Homo sapiens

<400> 11035  
 tattagaagt tggatttctg gtgaaagggt ttgagtgttt ttgaggcttt ggcacagaat 60  
 acccagctgg tcccagaaag gtggttccca ttacctgccc cgaaggtaat tcacccttac 120

000220"69462960







Tyr Gln Met Asn Glu Cys Gln Glu Lys Asp Thr Gly Phe Val Cys Ser  
50 55 60  
Arg Gln Ser Ser Leu Ser Ser Gly Leu Ser Gly Gly Ala Ser Lys Gly  
65 70 75 80  
Arg Lys Met Glu Leu Ile Gln Pro Lys Glu Pro Thr Ser Gln Tyr Ile  
85 90 95  
Ser Leu Cys His Glu Leu His Thr Leu Phe Gln Val Met Trp Ser Gly  
100 105 110  
Lys Trp Ala Leu Val Ser Pro Phe Ala Met Leu His Ser Val Trp Arg  
115 120 125  
Leu Ile Pro Ala Phe Arg Gly Tyr Ala Gln Gln Asp Ala Gln Glu Phe  
130 135 140  
Leu Cys Glu Leu Leu Asp Lys Ile Gln Arg Glu Leu Glu Thr Thr Gly  
145 150 155 160  
Thr Ser Leu Pro Ala Leu Ile Pro Thr Ser Gln Arg Lys Leu Ile Lys  
165 170 175  
Gln Val Leu Asn Val Val Asn Asn Ile Phe His Gly Gln Leu Leu Ser  
180 185 190  
Gln Val Thr Cys Leu Ala Cys Asp Asn Lys Ser Asn Thr Ile Glu Pro  
195 200 205  
Phe Trp Asp Leu Ser Leu Glu Phe Pro Glu Arg Tyr Gln Cys Ser Gly  
210 215 220  
Lys Asp Ile Ala Ser Gln Pro Cys Leu Val Thr Glu Met Leu Ala Lys  
225 230 235 240  
Phe Thr Glu Thr Glu Ala Leu Glu Gly Lys Ile Tyr Val Cys Asp Gln  
245 250 255  
Cys Asn Ser Lys Arg Arg Arg Phe Ser Ser Lys Pro Val Val Leu Thr  
260 265 270  
Glu Ala Gln Lys Gln Leu Met Ile Cys His Leu Pro Gln Val Leu Arg  
275 280 285  
Leu His Leu Lys Arg Phe Arg Trp Ser Gly Arg Asn Asn Arg Glu Lys  
290 295 300  
Ile Gly Val His Val Gly Phe Glu Glu Ile Leu Asn Met Glu Pro Tyr  
305 310 315 320  
Cys Cys Arg Glu Thr Leu Lys Ser Leu Arg Pro Glu Cys Phe Ile Tyr  
325 330 335  
Asp Leu Ser Ala Val Val Met His His Gly Lys Gly Phe Gly Ser Gly  
340 345 350  
His Tyr Thr Ala Tyr Cys Tyr Asn Ser Glu Gly Gly Phe Trp Val His  
355 360 365  
Cys Asn Asp Ser Lys Leu Ser Met Cys Thr Met Asp Glu Val Cys Lys  
370 375 380  
Ala Gln Ala Tyr Ile Leu Phe Tyr Thr Gln Arg Val Thr Glu Asn Gly  
385 390 395 400  
His Ser Lys Leu Leu Pro Pro Glu Leu Leu Gly Ser Gln His Pro  
405 410 415  
Asn Glu Asp Ala Asp Thr Ser Ser Asn Glu Ile Leu Ser  
420 425

008220" 69462960

<210> 11038  
<211> 1692  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (182).. (562)

<400> 11038  
ctagtgttaa attggaaaat atcaataatt aagagtatit tacccaagga gtcctctcat 60  
ggaagtttac tgtgatgttc cttttctcac acaagtttta gcctttttca caagggaact 120  
catactgtct acacatcaga ccatagttag ttaggaaacc tttaaaaatt ccagttaagc 180  
aatgttgaaa tcagtttgca tctcttcaaa agaaacctct caggtagct ttgaactgcc 240  
tcttcctgag atgactagga cagtcggtag ccagaggcca cccagaagcc ctcagatgta 300  
catacacaga tgccagtcag ctccctggggg tgcgccaggc gcccccgctc tagctcactg 360  
ttgcctcgct gtctgccagg aggccttgcc atccttgggc cctggcagtg gctgtgtccc 420  
agttagcttt actcacgtgg cccttgcttc atccagcaca gctctcaggt gggcactgca 480  
gggacactgg tgtcttccat gtagcgtccc agctttgggc tcctgtaaca gacctctttt 540  
tggttatgga tggctcacia aatagggccc ccaatgctat ttttttttt ttaagtttgt 600  
ttaattatit gttaagattg tctaaggcca aaggcaattg cgaaatcaag tccgtcaagt 660  
acaataacat ttttaaaaga aaatggatcc cactgttcct ctttgccaca gagaaagcac 720  
ccagacgcca caggctctgt cgcatttcaa aacaaacctat gatggagtgg cggccagtcc 780  
agccttttaa agaacgtcag gtggagcagc cagggtgaaag gcctggcggg gaggaaagtg 840  
aaacgcctga atcaaaagca gttttctaatt tttagacttta aatttttcat ccgccggaga 900  
cgctgtctcc atttgtgggg ggacatttag aacatcactc agaagcctgt gttcttcaag 960  
agcaggtgtt ctacagctca catgccctgc cgtgctggac tcaggactga agtgcgtgta 1020  
agcaaggagc tgctgagaag gagcactcca ctgtgtgcct ggagaatggc tctcactact 1080  
caccttgtct ttcagcttcc agtgtcttgg gttttttata ctttgacagc ttttttttaa 1140  
ttgcatacat gagactgtgt tgactttttt ttagttatgt gaaacacttt gccgcaggcc 1200  
gcctggcaga ggcaggaaat gctccagcag tggctcagtg ctccctgggt tctgctgcat 1260  
ggcatcctgg atgcttagca tgcaagttcc ctccatcatt gccacottgg tagagaggga 1320  
tggctcccca ccctcagcgt tggggattca cgctccagcc tccttcttgg ttgtcatagt 1380  
gatagggttag ccttattgcc ccctcttctt ataccctaaa accttotaca ctagtgccat 1440  
gggaaccagg tctgaaaaag tagagagaag tgaaagtaga gtctgggaag tagctgccta 1500  
taactgagac tagacggaaa aggaatactc gtgtatttta agatatgaat gtgactcaag 1560  
actcgaggcc gatacgaggc tgtgattctg cctttggatg gatgttgctg tacacagatg 1620  
ctacagactt gtactaacac accgtaattt ggcatttgtt taacctcatt tataaaagct 1680  
tcaaaaaaac cc 1692

<210> 11039  
<211> 127  
<212> PRT  
<213> Homo sapiens

000220"69462960



-4494/13211-

```
tagcagggggg  tggaacagtg  agtgtcagtg  tcagatctag  aaggcctgat  ggacagtgca  1200
cagtaactga  agtttaaata  aaaatgtctt  cagctccatg  ctcaagggtg  aaagggttac  1260
ctgtaaatct  ctgcccacat  aacattatac  tcatccctag  tagtgcatct  tgggagttgg  1320
ggtgggaagg  ggtatgggaa  ggatagactc  ataattaaaa  tgtctaacat  gtctctgttg  1380
agaaatttat  ttaatgtaag  gaacttgggt  gttaatagtt  gagagctgtt  tagtaataac  1440
ccagttttct  tgaggctctg  ttactttata  ctttttaaaa  acttctgtag  ttcttttggc  1500
cagtgtgttt  gtattatctg  tgcattaatg  gtccctcatc  gactcctgca  ttgtgtctta  1560
tttttctgca  tggattggca  taagaccatt  actaaaattt  ggcacctgtg  agatgtttga  1620
tattatgaac  aggaacata  atttaatgta  tgaatagatg  tgaatttggg  atttcaaaat  1680
agatgaataa  caactatctt  atagtaaagt  tattgaaatg  gaaatgaaaa  cagccagtaa  1740
cttatgtttc  agaatgtttg  taacacactt  catggtgttc  ccataggctt  tgctgtctag  1800
tcttatagtt  tgaggttttt  ttggtctgca  tttttctttt  tgattacaaa  atttataatt  1860
taataaatac  tagagtttat  c                                     1881
```

<210> 11041

<211> 358

<212> PRT

<213> Homo sapiens

<400> 11041

```
Met Ala Gly Cys Gly Glu Ile Asp His Ser Ile Asn Met Leu Pro Thr
  1             5             10             15
Asn Arg Lys Ala Asn Glu Ser Cys Ser Asn Thr Ala Pro Ser Leu Thr
          20             25             30
Val Pro Glu Cys Ala Ile Cys Leu Gln Thr Cys Val His Pro Val Ser
          35             40             45
Leu Pro Cys Lys His Val Phe Cys Tyr Leu Cys Val Lys Gly Ala Ser
          50             55             60
Trp Leu Gly Lys Arg Cys Ala Leu Arg Arg Gln Glu Ile Pro Glu Asp
          65             70             75             80
Phe Leu Asp Lys Pro Thr Leu Leu Ser Pro Glu Glu Leu Lys Ala Ala
          85             90             95
Ser Arg Gly Asn Gly Glu Tyr Ala Trp Tyr Tyr Glu Gly Arg Asn Gly
          100            105            110
Trp Trp Gln Tyr Asp Glu Arg Thr Ser Arg Glu Leu Glu Asp Ala Phe
          115            120            125
Ser Lys Gly Lys Lys Asn Thr Glu Met Leu Ile Ala Gly Phe Leu Tyr
          130            135            140
Val Ala Asp Leu Glu Asn Met Val Gln Tyr Arg Arg Asn Glu His Gly
          145            150            155            160
Arg Arg Arg Lys Ile Lys Arg Asp Ile Ile Asp Ile Pro Lys Lys Gly
          165            170            175
Val Ala Gly Leu Arg Leu Asp Cys Asp Ala Asn Thr Val Asn Leu Ala
          180            185            190
Arg Glu Ser Ser Ala Asp Gly Ala Asp Ser Val Ser Ala Gln Ser Gly
          195            200            205
Ala Ser Val Gln Pro Leu Val Ser Ser Val Arg Pro Leu Thr Ser Val
```

09629469.072800



```

gctgaagatg attttgataa aatgctgtga tatctctaac gaggtccgtc caatggaagt 1080
cgcagagcct tgggtggact gtttattaga ggaatatttt atgcagagcg accgtgagaa 1140
gtcagaaggc cttcctgtgg caccgttcat ggaccgagac aaagtgacca aggccacagc 1200
ccagattggg ttcacaaagt ttgtcctgat cccaatgttt gaaacagtga ccaagctctt 1260
ccccatggtt gaggagatca tgctgcagcc actttgggaa tcccgagatc gctacgagga 1320
gctgaagcgg atagatgacg ccatgaaaga gttacagaag aagactgaca gcttgacgtc 1380
tggggccacc gagaagtcca gagagagaag cagagatgtg aaaaacagtg aaggagactg 1440
tgcctgagga aagcgggggg cgtggctgca gttctggacg ggctggccga gctgcgcggg 1500
atccttgtgc aggaagagc tgccctgggc acctggcacc acaagaccat gttttctaag 1560
aaccattttg ttcactgata caaaaaaaaaa aaaaaggaat tcatgatgct gtacagaatt 1620
ttatttttaa actgtctttt aaataatata ttottatacg g 1661

```

<210> 11043  
 <211> 474  
 <212> PRT  
 <213> Homo sapiens

<400> 11043

Met	Val	Ser	Ile	Asp	Pro	Thr	Met	Pro	Ala	Asn	Ser	Glu	Arg	Thr	Pro
1				5					10					15	
Tyr	Lys	Val	Arg	Pro	Val	Ala	Ile	Lys	Gln	Leu	Ser	Glu	Arg	Glu	Glu
			20					25					30		
Leu	Ile	Gln	Ser	Val	Leu	Ala	Gln	Val	Ala	Glu	Gln	Phe	Ser	Arg	Ala
			35				40						45		
Phe	Lys	Ile	Asn	Glu	Leu	Lys	Ala	Glu	Val	Ala	Asn	His	Leu	Ala	Val
			50				55				60				
Leu	Glu	Lys	Arg	Val	Glu	Leu	Glu	Gly	Leu	Lys	Val	Val	Glu	Ile	Glu
					70					75				80	
Lys	Cys	Lys	Ser	Asp	Ile	Lys	Lys	Met	Arg	Glu	Glu	Leu	Ala	Ala	Arg
				85					90					95	
Ser	Ser	Arg	Thr	Asn	Cys	Pro	Cys	Lys	Tyr	Ser	Phe	Leu	Asp	Asn	His
			100					105					110		
Lys	Lys	Leu	Thr	Pro	Arg	Arg	Asp	Val	Pro	Thr	Tyr	Pro	Lys	Tyr	Leu
			115				120					125			
Leu	Ser	Pro	Glu	Thr	Ile	Glu	Ala	Leu	Arg	Lys	Pro	Thr	Phe	Asp	Val
			130				135				140				
Trp	Leu	Trp	Glu	Pro	Asn	Glu	Met	Leu	Ser	Cys	Leu	Glu	His	Met	Tyr
145					150					155				160	
His	Asp	Leu	Gly	Leu	Val	Arg	Asp	Phe	Ser	Ile	Asn	Pro	Val	Thr	Leu
				165					170					175	
Arg	Arg	Trp	Leu	Phe	Cys	Val	His	Asp	Asn	Tyr	Arg	Asn	Asn	Pro	Phe
			180					185					190		
His	Asn	Phe	Arg	His	Cys	Phe	Cys	Val	Ala	Gln	Met	Met	Tyr	Ser	Met
			195				200				205				
Val	Trp	Leu	Cys	Ser	Leu	Gln	Glu	Lys	Phe	Ser	Gln	Thr	Asp	Ile	Leu
			210				215				220				
Ile	Leu	Met	Thr	Ala	Ala	Ile	Cys	His	Asp	Leu	Asp	His	Pro	Gly	Tyr

-4497/13211-

225                      230                      235                      240  
Asn Asn Thr Tyr Gln Ile Asn Ala Arg Thr Glu Leu Ala Val Arg Tyr  
                         245                      250                      255  
Asn Asp Ile Ser Pro Leu Glu Asn His His Cys Ala Val Ala Phe Gln  
                         260                      265                      270  
Ile Leu Ala Glu Pro Glu Cys Asn Ile Phe Ser Asn Ile Pro Pro Asp  
                         275                      280                      285  
Gly Phe Lys Gln Ile Arg Gln Gly Met Ile Thr Leu Ile Leu Ala Thr  
                         290                      295                      300  
Asp Met Ala Arg His Ala Glu Ile Met Asp Ser Phe Lys Glu Lys Met  
305                      310                      315                      320  
Glu Asn Phe Asp Tyr Ser Asn Glu Glu His Met Thr Leu Leu Lys Met  
                         325                      330                      335  
Ile Leu Ile Lys Cys Cys Asp Ile Ser Asn Glu Val Arg Pro Met Glu  
                         340                      345                      350  
Val Ala Glu Pro Trp Val Asp Cys Leu Leu Glu Glu Tyr Phe Met Gln  
                         355                      360                      365  
Ser Asp Arg Glu Lys Ser Glu Gly Leu Pro Val Ala Pro Phe Met Asp  
370                      375                      380  
Arg Asp Lys Val Thr Lys Ala Thr Ala Gln Ile Gly Phe Ile Lys Phe  
385                      390                      395                      400  
Val Leu Ile Pro Met Phe Glu Thr Val Thr Lys Leu Phe Pro Met Val  
                         405                      410                      415  
Glu Glu Ile Met Leu Gln Pro Leu Trp Glu Ser Arg Asp Arg Tyr Glu  
                         420                      425                      430  
Glu Leu Lys Arg Ile Asp Asp Ala Met Lys Glu Leu Gln Lys Lys Thr  
                         435                      440                      445  
Asp Ser Leu Thr Ser Gly Ala Thr Glu Lys Ser Arg Glu Arg Ser Arg  
450                      455                      460  
Asp Val Lys Asn Ser Glu Gly Asp Cys Ala  
465                      470

<210> 11044  
<211> 1411  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (11).. (571)

<400> 11044  
aaacaaagag atgccacccc tgtgtgatgg ctttgggtacc cgaacactga tggttcagac 60  
attttcccggt tgcattctgt gttccaagga tgaagtggac ttggatgagt tattagctgc 120  
tagatttgta acgtttctga tggacaatta ccaggaaatt ctgaaagtcc ctttggcctt 180  
gcagacctct atagaggagc gtgtggctca tctacgaaga gtccagataa aatacccagg 240  
agctgatatg gatatcactt tatctgctcc atcattttgc cgtcaaatta gtccagagga 300

09629469.072300



```

atttgaatat caaagatcat atggctctca ggaacctctg gcagccttgt tggaggaagt 360
cataacagat gccaaactct ccaacaaaga gaaaaagaag aaactgaagc agtttcagaa 420
atcctatcct gaagtctatc aagaacgatt tcctacacca gaaagtgcag cacttctgtt 480
tcctgaaaaa cccaaaccga aaccacagct gctaattgtg gcactaaaga agcctttcca 540
accatttcaa agaactagaa gttttcgaat gtaataatac ttccacagca acaggtgcta 600
gagaccactg ttgtttgttt gagtgaatgg tggtaggag aaagactttg gtggtggaag 660
aaagaaaagc ataaaacaaa gactactgaa atatatagataa agattgcctt agtttttaaa 720
aatgtttggc cattagtatt tttataaaac tcaatgctag ttttaagtgt ataaattggt 780
taaaatttat gagtcaaata tatagtata atgttaacat gtttgtaatt gctacagaat 840
ttaagggtat ttttatctct gtgctttctt tttcatgggt tttattaaat aattgtgtat 900
atacatccta gctactgata tctttattat agccttaaga ctttaattta agtcttaaaa 960
atagcgtgta tacttgaata agaaagacac tgggtactgt tactgtgatg ctattgactt 1020
agtagccaat tatcatttct cctgtataaa ttccagtttt tattgctgca cataaatttt 1080
ttaatgtctt atattgtgat agctatgtct tttattgcag atttattgga tgttatgaca 1140
gattttacta aagctagtgt ttttataaca tatatatagg ttgatgttta cctataagtg 1200
gagtagattt tcatctgcct gcaatgggtat aatttcagtc ttagctaaaa atggaaagtt 1260
gaactggata aattctttgg gtacccttag acctctgatt ctaagtcaaa tgcaaattggg 1320
ttaaataaaa tgagactact tcctttataa atatatatttc atccttttga aagtaagtga 1380
aatgtaaata aacttatttt ttttaaaaat g 1411

```

<210> 11045  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 11045

Met	Pro	Pro	Leu	Cys	Asp	Gly	Phe	Gly	Thr	Arg	Thr	Leu	Met	Val	Gln
1				5					10					15	
Thr	Phe	Ser	Arg	Cys	Ile	Leu	Cys	Ser	Lys	Asp	Glu	Val	Asp	Leu	Asp
			20					25					30		
Glu	Leu	Leu	Ala	Ala	Arg	Leu	Val	Thr	Phe	Leu	Met	Asp	Asn	Tyr	Gln
		35					40					45			
Glu	Ile	Leu	Lys	Val	Pro	Leu	Ala	Leu	Gln	Thr	Ser	Ile	Glu	Glu	Arg
		50				55					60				
Val	Ala	His	Leu	Arg	Arg	Val	Gln	Ile	Lys	Tyr	Pro	Gly	Ala	Asp	Met
65				70					75					80	
Asp	Ile	Thr	Leu	Ser	Ala	Pro	Ser	Phe	Cys	Arg	Gln	Ile	Ser	Pro	Glu
			85						90				95		
Glu	Phe	Glu	Tyr	Gln	Arg	Ser	Tyr	Gly	Ser	Gln	Glu	Pro	Leu	Ala	Ala
		100						105				110			
Leu	Leu	Glu	Glu	Val	Ile	Thr	Asp	Ala	Lys	Leu	Ser	Asn	Lys	Glu	Lys
		115				120					125				
Lys	Lys	Lys	Leu	Lys	Gln	Phe	Gln	Lys	Ser	Tyr	Pro	Glu	Val	Tyr	Gln
	130				135					140					
Glu	Arg	Phe	Pro	Thr	Pro	Glu	Ser	Ala	Ala	Leu	Phe	Pro	Glu	Lys	
145				150					155				160		
Pro	Lys	Pro	Lys	Pro	Gln	Leu	Leu	Met	Trp	Ala	Leu	Lys	Lys	Pro	Phe

-4499/13211-

165 170 175  
Gln Pro Phe Gln Arg Thr Arg Ser Phe Arg Met  
180 185

<210> 11046  
<211> 1553  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (23).. (1063)

<400> 11046  
ctacatcaaa actcctcgga agatgttccg goacaacggac agcctctttc ccatacctact 60  
gcagacgtta tcggatgaat cggatgaggt gatcctgaag gacctggagg tgctggcaga 120  
aatcgcttcc tccccgcag gccagacgga tgaccaggc cccctcgatg gccctgacct 180  
ccaggccagc cactcagagc tccaggtgcc cacccttggc agagccggcc tactgaacac 240  
ctctggtacc aaaggcttag aatgtttctc ttcaactccc accatgaatt cttactttta 300  
taagttcatg atcaaccttc tcaagagatt cagcagcgaa tggaagctcc tggaggctcag 360  
aggccctttc atcatcaggc agctgtgcct cctgctgaat gcggagaaca tcttccactc 420  
aatggcagac atcctgctgc gggaggagga cctcaagttc gcctcgacca tgggccacgc 480  
cctcaacacc atcctgctga cctccacaga gctcttcag ctaagggaacc agctgaagga 540  
cctgaagacc ctggagagcc agaacctgtt ctgctgcctg taccgctcct ggtgccacaa 600  
cccagtcacc acggtgtccc tctgcttctc caccagaac taccggcacg cctatgacct 660  
catccagaag tttggggacc tggaggctac cgtggacttc ctgcagagg tggacaagct 720  
ggtgcagctg attgagtgcc ccattttcac atatctgccc ctgcagctgc tggacgtgaa 780  
gaacaacccc tacctgatca aggccctcta cggcctgctc atgctcctgc ctgagagcag 840  
cgccttccag ctgctctcgc accggctcca gtgcgtgccc aaccctgagc tgctgcagac 900  
cgaagacagt ctaaaggcag cccccaagtc ccagaaagct gactccccta gcatcgacta 960  
cgcagagctg ctgcagcact ttgagaaggt ccagaacaag cacctggaag tgcggcacca 1020  
gcgagcgagg cgtggggacc acctggaccg gagggttgtc ctctgacagg cctggcacgg 1080  
aggagggccc accgagtggc cccatgaaac actaagggtc gtcacgccct cccgaggagc 1140  
tcaaggacct gcctgtcagg accagggtcg ggccctgcaa cccagggcag tgttggggcc 1200  
ggaggctgct gtgtctgccc aagctcctct cagagtccag tccccaggcc tccagcgtg 1260  
tcagctgcac cctggcattc tcacagagct ggctgcccac ccagtggggg gctatagcct 1320  
cagagaccac tcatcctctg gaatcaacct ctttctaata ccctcttggg aaaagagctt 1380  
gcccctcctc cagcacacta gagctctggc cttgtgtgta tatgtataca tacgtgaaca 1440  
catgcctgtg tgtgtgtgtg tgtgtgtgta cttgtatgca cgtaggcacc agcaciaaga 1500  
tctgaatgat gcaccccacc cccaccccaa taaagaaata acagaaaacc ctc 1553

<210> 11047  
<211> 347  
<212> PRT  
<213> Homo sapiens

0092270769462960

<400> 11047

Met	Phe	Arg	His	Thr	Asp	Ser	Leu	Phe	Pro	Ile	Leu	Leu	Gln	Thr	Leu
1				5				10					15		
Ser	Asp	Glu	Ser	Asp	Glu	Val	Ile	Leu	Lys	Asp	Leu	Glu	Val	Leu	Ala
		20					25					30			
Glu	Ile	Ala	Ser	Ser	Pro	Ala	Gly	Gln	Thr	Asp	Asp	Pro	Gly	Pro	Leu
	35					40					45				
Asp	Gly	Pro	Asp	Leu	Gln	Ala	Ser	His	Ser	Glu	Leu	Gln	Val	Pro	Thr
50					55					60					
Pro	Gly	Arg	Ala	Gly	Leu	Asn	Thr	Ser	Gly	Thr	Lys	Gly	Leu	Glu	
65				70				75						80	
Cys	Ser	Pro	Ser	Thr	Pro	Thr	Met	Asn	Ser	Tyr	Phe	Tyr	Lys	Phe	Met
			85					90					95		
Ile	Asn	Leu	Leu	Lys	Arg	Phe	Ser	Ser	Glu	Trp	Lys	Leu	Leu	Glu	Val
	100						105					110			
Arg	Gly	Pro	Phe	Ile	Ile	Arg	Gln	Leu	Cys	Leu	Leu	Leu	Asn	Ala	Glu
	115					120						125			
Asn	Ile	Phe	His	Ser	Met	Ala	Asp	Ile	Leu	Leu	Arg	Glu	Glu	Asp	Leu
130					135						140				
Lys	Phe	Ala	Ser	Thr	Met	Val	His	Ala	Leu	Asn	Thr	Ile	Leu	Leu	Thr
145				150						155					160
Ser	Thr	Glu	Leu	Phe	Gln	Leu	Arg	Asn	Gln	Leu	Lys	Asp	Leu	Lys	Thr
			165					170					175		
Leu	Glu	Ser	Gln	Asn	Leu	Phe	Cys	Cys	Leu	Tyr	Arg	Ser	Trp	Cys	His
		180					185						190		
Asn	Pro	Val	Thr	Thr	Val	Ser	Leu	Cys	Phe	Leu	Thr	Gln	Asn	Tyr	Arg
	195					200						205			
His	Ala	Tyr	Asp	Leu	Ile	Gln	Lys	Phe	Gly	Asp	Leu	Glu	Val	Thr	Val
210					215						220				
Asp	Phe	Leu	Ala	Glu	Val	Asp	Lys	Leu	Val	Gln	Leu	Ile	Glu	Cys	Pro
225				230						235					240
Ile	Phe	Thr	Tyr	Leu	Arg	Leu	Gln	Leu	Leu	Asp	Val	Lys	Asn	Asn	Pro
			245					250					255		
Tyr	Leu	Ile	Lys	Ala	Leu	Tyr	Gly	Leu	Leu	Met	Leu	Leu	Pro	Gln	Ser
		260					265						270		
Ser	Ala	Phe	Gln	Leu	Leu	Ser	His	Arg	Leu	Gln	Cys	Val	Pro	Asn	Pro
	275					280						285			
Glu	Leu	Leu	Gln	Thr	Glu	Asp	Ser	Leu	Lys	Ala	Ala	Pro	Lys	Ser	Gln
290					295						300				
Lys	Ala	Asp	Ser	Pro	Ser	Ile	Asp	Tyr	Ala	Glu	Leu	Leu	Gln	His	Phe
305				310						315					320
Glu	Lys	Val	Gln	Asn	Lys	His	Leu	Glu	Val	Arg	His	Gln	Arg	Ser	Gly
			325					330					335		
Arg	Gly	Asp	His	Leu	Asp	Arg	Arg	Val	Val	Leu					
		340					345								

<210> 11048

009220 69462960

<211> 1416  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1).. (897)

<400> 11048  
atgagcatca ccgaggagat ggcggaag atgaccgtgg ccaaggactc ctcggacctg 60  
cctgaggagt cgcggcggga gctgctggag cagatagcag actgctgcat gcgccagggc 120  
agctaccacc tggccacca aagatcacg caggccggca acaagctgaa ggccatgagg 180  
gcgctgctca aatccggaga caccggagaa atcacgttct tcgcgagcgt gtccaggcag 240  
aaggaaatct acatcatggc tgctaactac ctgcagtccc tggactggcg gaaggagccg 300  
gagatcatga agaacatcat cggcttctac accaaggggc gggccctgga cctcctggct 360  
ggcttttatg acgcttgtgc ccagggtggag attgatgaat accagaacta cgacaaagcc 420  
cacggggcgc tgaccgaggc ctacaagtgc ctggccaagg ccaaggccaa gagccccctg 480  
gaccaggaga ccaggctggc gcagctgcag agcaggatgg cactggtgaa gaggttcac 540  
caggcccgca ggacgtacac agaggacccc aaggagtcca tcaagcagtg tgagctgctc 600  
ctggaggaa cagacctgga cagcaccatc cgcctcggg acgtctatgg cttcctggtg 660  
gagcactacg tgcggaagga ggaataccag acggcctaca gattcctgga ggagatgcgg 720  
cggcgggctt ccttggccaa catgtcctac tacgtgagcc cgcaggccgt ggacgccgtg 780  
caccgggggc tgggtctccc actgccacgc accgtccccg agcaggtcgg ccacaacagc 840  
atggaggacg ccaggagagt ggacgaggag gtggtggaag aggcagatga cgaccctga 900  
ggggcctggg cccaggacc agcgtgctgc tgcagaaagg catcttctgg aatttttttg 960  
tcagctgtgg caaagccagc atttttctg ggaaaaaaca tgtctgtgtt ggaatacgcg 1020  
acagagctgg gcgagaacgc agcggcccgg gccggcggag ggtgtgacct gtctgcacct 1080  
tgctctgtcc cacctgcctc tgggtgcccg gcagctccac tagatttttg gattcattcc 1140  
tttgaaggga gtccgggttca ccttccatc gtattctccc aactacacat tgtaaagcct 1200  
gagaaacttc tagaacctca ggaagctgca gctggagggc tggggcacct gccccctgc 1260  
tccccacaca tcatatcctc ccatactcc tgcaggggcc acggctcctg agcaacagct 1320  
gggacacccg ggccttggcg gctgcacccc ctgctagggt ctgcccaccg gccaccaaca 1380  
ctcctgtaat tccaataaag cagtttattt tctgag 1416

<210> 11049  
<211> 299  
<212> PRT  
<213> Homo sapiens

<400> 11049  
Met Ser Ile Thr Glu Glu Met Ala Glu Lys Met Thr Val Ala Lys Asp  
1 5 10 15  
Ser Ser Asp Leu Pro Glu Glu Ser Arg Glu Leu Leu Glu Gln Ile  
20 25 30  
Ala Asp Cys Cys Met Arg Gln Gly Ser Tyr His Leu Ala Thr Lys Lys  
35 40 45  
Tyr Thr Gln Ala Gly Asn Lys Leu Lys Ala Met Arg Ala Leu Leu Lys

50		55		60	
Ser Gly Asp Thr Glu Lys Ile Thr Phe Phe Ala Ser Val Ser Arg Gln					
65		70		75	80
Lys Glu Ile Tyr Ile Met Ala Ala Asn Tyr Leu Gln Ser Leu Asp Trp					
	85		90		95
Arg Lys Glu Pro Glu Ile Met Lys Asn Ile Ile Gly Phe Tyr Thr Lys					
	100		105		110
Gly Arg Ala Leu Asp Leu Leu Ala Gly Phe Tyr Asp Ala Cys Ala Gln					
	115		120		125
Val Glu Ile Asp Glu Tyr Gln Asn Tyr Asp Lys Ala His Gly Ala Leu					
	130		135		140
Thr Glu Ala Tyr Lys Cys Leu Ala Lys Ala Lys Ser Pro Leu					
145		150		155	160
Asp Gln Glu Thr Arg Leu Ala Gln Leu Gln Ser Arg Met Ala Leu Val					
	165		170		175
Lys Arg Phe Ile Gln Ala Arg Arg Thr Tyr Thr Glu Asp Pro Lys Glu					
	180		185		190
Ser Ile Lys Gln Cys Glu Leu Leu Leu Glu Glu Pro Asp Leu Asp Ser					
	195		200		205
Thr Ile Arg Ile Gly Asp Val Tyr Gly Phe Leu Val Glu His Tyr Val					
	210		215		220
Arg Lys Glu Glu Tyr Gln Thr Ala Tyr Arg Phe Leu Glu Glu Met Arg					
225		230		235	240
Arg Arg Leu Pro Leu Ala Asn Met Ser Tyr Tyr Val Ser Pro Gln Ala					
	245		250		255
Val Asp Ala Val His Arg Gly Leu Gly Leu Pro Leu Pro Arg Thr Val					
	260		265		270
Pro Glu Gln Val Arg His Asn Ser Met Glu Asp Ala Arg Glu Leu Asp					
	275		280		285
Glu Glu Val Val Glu Glu Ala Asp Asp Asp Pro					
290		295			

<210> 11050  
 <211> 1356  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (29).. (460)

<400> 11050  
 ctgggtcttg cttcagggca cagacttcat gccggacccc agctccgagt ggctgtaccg 60  
 ggtgacgggtg gccaccatcc tctatttctc ctggttcaac gtggctgagg gcgcacccc 120  
 aggcggggcc atcatccact tcgcttccct cctgagtgac agcattctcc tgggtggccac 180  
 ctgggtgact catagctcct ggctgcccag cgggattcca ctgcagctgt ggctgcctgt 240  
 gggatgcggc tgcttcttc tgggcctggc tctgcggtt gtgtactacc actggctgca 300

09629469.0/2300

```

ccctagctgc tgctggaagc ccgaccctga ccaggtagac ggggcccggga gtctgctttc 360
tccagagggg tatcagctgc ctcagaacag ggcgatgacc catttagcac agaagttttt 420
ccccaaggct aaggatgagg ctgcttcgcc agtgaaggga taggtgaacg gcgtcccttg 480
aagcaggatc agaccagacc agcagagatg gagagtgact ctgttggcag aaggcaggcg 540
aggataagct aacgatgctg ctgtggcctc tatgcaactca gcaagagcgg gacgcctgtg 600
ctgggcccggg caccagggat ggtgctgagt cgggcagagg cctcctttca aggagtccac 660
agtgaacaag atgagaaggg ctgggccctg gaggggtcaag agccccaatt atgtacaaga 720
cactttggga ggaagaaga ctaccttttc cccctgccat tggatatagct ggtgccccaa 780
aacttcacc tccctccctg gccacctcta aaatgactgg tataggtgct gcccacccc 840
ttagctcccc tatcctgggc taggaggcca caggggctgt cctctagaat tcttccttcc 900
ctccccaca ccattcattc aattcatgaa acaaatcttt gccaaagagca gtttatgtgc 960
caggaacatc attctgtccc tgcaacctgg aacaagacca gctaccagcc tagcttcac 1020
cgctacttgc accaaccagt cccgggttag atcccaaagc ctagaagcca gggatgcccc 1080
actctgggtg gcccagtcga gaacctctgg gatctcagtg aagctggcct ggcctctgct 1140
cctgctctca aggggctgct tttcaaccaa gagccttggtg agcctgggtc gagccttgca 1200
cagccactga gtatTTTTTT tgccttagcc agtgtacctc ctacctcagt ctatgtgaga 1260
ggaagagaat gtgtgtgcct gtgggtctct acaagtgaca gatgtgttgt tttcaacagt 1320
attattaggt tatgaataaa gcctcatgaa atcctc 1356

```

<210> 11051  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

```

<400> 11051
Met Pro Asp Pro Ser Ser Glu Trp Leu Tyr Arg Val Thr Val Ala Thr
  1             5             10             15
Ile Leu Tyr Phe Ser Trp Phe Asn Val Ala Glu Gly Arg Thr Arg Gly
          20             25             30
Arg Ala Ile Ile His Phe Ala Phe Leu Leu Ser Asp Ser Ile Leu Leu
          35             40             45
Val Ala Thr Trp Val Thr His Ser Ser Trp Leu Pro Ser Gly Ile Pro
          50             55             60
Leu Gln Leu Trp Leu Pro Val Gly Cys Gly Cys Phe Phe Leu Gly Leu
          65             70             75             80
Ala Leu Arg Leu Val Tyr Tyr His Trp Leu His Pro Ser Cys Cys Trp
          85             90             95
Lys Pro Asp Pro Asp Gln Val Asp Gly Ala Arg Ser Leu Leu Ser Pro
          100            105            110
Glu Gly Tyr Gln Leu Pro Gln Asn Arg Arg Met Thr His Leu Ala Gln
          115            120            125
Lys Phe Phe Pro Lys Ala Lys Asp Glu Ala Ala Ser Pro Val Lys Gly
          130            135            140

```

<210> 11052  
 <211> 1465

09629469.072300

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (278).. (703)

<400> 11052  
taaaaaaacc gctccagcac ccccgaaacc gggcaaccca cctcctggcc accccggggg 60  
ccagagttct tcaggaacat ctgagcatcc acccagttctg tcaccaaagc caccaccccg 120  
aagcccctct cctcccaccc agcacacggg ccagcctcca ggccagccct ccgccccctc 180  
ccagctctca gcaccccgga ggtactccag cagcttgtct ccaatccaag ctcccaatca 240  
cccaccgccg cagcccccta cgcaggccac gccactgatg cacaccaaac ccaatagcca 300  
gggcccctcc aaccccattg cattgcccag tgagcatgga cttgagcagc catctcacac 360  
ccctccccag actccaacgc cccccagtac tccgccccta ggaaaacaga accccagtct 420  
gccagctcct cagaccctgg cagggggtaa ccctgaaact gcacagccac atgctggaac 480  
cttaccgaga ccgagaccag taccaaagcc aaggaaccgg ccagcgtgc cccaccccc 540  
ccaacctcct ggtgtccact cagctgggga cagcagcctc accaacacag caccaacagc 600  
ttccaagata gtaacagggt ttcagaaccg catcgagca tctttcctga aatgcactca 660  
gactcagcca gcaaagacgt gcctggccgc atcctgctgg atatagacaa tgataccgag 720  
agcactgccc tgtgaagaaa gccctttccc agccctccac caattccacc ctggcgagtg 780  
gagcaggggc aggcgaacct ctttctttgc agaccgaaca gtgaaaagct ttcagtggag 840  
gacaaatgag ggctcactg tgccgggacct ggcttctgc acggcccaag gagaacctgg 900  
aggccaccac taaagctgaa tgacctgtgt cttgaagaag ttggctttct ttacatggga 960  
aggaaatcat gccaaaaaaa tccaaaacaa agaagtacct ggagtggaga gagtattcct 1020  
gctgaaacgc gcataggaag cttttgtccc tgctgttaat gcgggcagca cctacagcaa 1080  
cttggaatga gtaagaagca gtgcgttaac tatctattta ataaatgag ctcatattgc 1140  
aagtcgccta ctctctgcta cctggacgtt cattcttatg tattaggagg gaggctgcgc 1200  
tccttcagac ttgctgcaga atcattttgt atcatgtat gtctgtgtct cccagctccc 1260  
ctcagaacca tgcccatgga tggtagctgc tggctctgtc acctcatcaa actggatgtg 1320  
accatgccc cctcgttgga ttgtcggaat gtagacagaa atgtactgtt cttttttttt 1380  
tttaaacaaat gtaattgcta cttgataagg accgaacatt attctagttt catgtttaat 1440  
ttgaattaaa tatattctgt ggttt 1465

<210> 11053  
<211> 142  
<212> PRT  
<213> Homo sapiens

<400> 11053  
Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn Pro Met Ala Leu  
1 5 10 15  
Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr Pro Pro Gln Thr  
20 25 30  
Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln Asn Pro Ser Leu  
35 40 45  
Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu Thr Ala Gln Pro

09629469.072800

50		55		60
His Ala Gly Thr Leu Pro Arg Pro Arg Pro Val Pro Lys Pro Arg Asn				
65		70		75
Arg Pro Ser Val Pro Pro Pro Pro Gln Pro Pro Gly Val His Ser Ala				80
	85		90	95
Gly Asp Ser Ser Leu Thr Asn Thr Ala Pro Thr Ala Ser Lys Ile Val				
	100		105	110
Thr Gly Phe Gln Asn Arg Ile Ala Ala Ser Phe Leu Lys Cys Thr Gln				
	115		120	125
Thr Gln Pro Ala Lys Thr Cys Leu Ala Ala Ser Cys Trp Ile				
130		135		140

<210> 11054  
 <211> 1166  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (159).. (470)

<400> 11054

aggctcttag gctccacccg gccctgaaca gctggcttgt cttggagtct cttgtgccac	60
cctccccagg aacagtggct tccttgtatt ggccgacagc atgatgggac agctctgtgc	120
taaacggagt cttgctctgt tgcccaggct ggagtgaat ggtgcgatct cggctcactg	180
cagtctccgc ctcttgggtt caggctcatc cacctgcaga catggggcgc agaaagtcaa	240
aacgaaagcc gcctcccaag aagaagatga caggcaccct cgagaccag ttcacctgcc	300
ccttctgcaa ccacgagaaa tcctgtgatg tgaaaatgga ccgtgcccgc aacaccggag	360
tcctctcttg taccgtgtgc ctagaggaat tccagacgcc cataacgtat ctgtcagaac	420
ccgtggatgt gtacagtgat tggatagacg cctgcgaggc ggccaatcag tagcgacaca	480
gaggacccgc cccctgagca gcccgcgta ctgtggatcc agctgttcgg ttcttggtcca	540
gagacattcc aggggtccag ggtgtgggtc ctgggctgtc acagccgtgt gtgtgtgtgt	600
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt agtgggtgtg cgtgtgggtg tgggtgtgag	660
tgagtgtggg tgtgtgtggc tgcacgtgtc actggggtgg ccgtgagtgt gtgctcacag	720
gtacgcggtg gtgtcgggtt cctgggcctg aggggcctga actgatctca cttggctccg	780
aaagcctttg ctgtgttccc tgcagcccct ggccccccag ccttggggct ctggctcccc	840
ccggcggaat tgggggactg tttcctgaca tcctggacaa gggaagccca ctagaggctg	900
gaacaggacc tctccagcct cctcaccagc accgtgccc tctcaactgg acttcccgcc	960
ctccttctcc accttctagt gccctgtggc ggggattcaa agccgccgtt ccccaggtcc	1020
ctgggctggg ccctgacagg gagccgccc cctcccatg gtaaccagga agcccgttc	1080
atgttcagtt gcttttgtaa aggaagcaag ggctgggatg gggacagctg tcaatcaca	1140
gcccttaaat aaagcagcca gcgcac	1166

<210> 11055  
 <211> 104  
 <212> PRT

003220.69462960



<213> Homo sapiens

<400> 11055

Met Val Arg Ser Arg Leu Thr Ala Val Ser Ala Ser Trp Val Gln Ala  
1 5 10 15  
His Pro Pro Ala Asp Met Gly Arg Arg Lys Ser Lys Arg Lys Pro Pro  
20 25 30  
Pro Lys Lys Lys Met Thr Gly Thr Leu Glu Thr Gln Phe Thr Cys Pro  
35 40 45  
Phe Cys Asn His Glu Lys Ser Cys Asp Val Lys Met Asp Arg Ala Arg  
50 55 60  
Asn Thr Gly Val Ile Ser Cys Thr Val Cys Leu Glu Glu Phe Gln Thr  
65 70 75 80  
Pro Ile Thr Tyr Leu Ser Glu Pro Val Asp Val Tyr Ser Asp Trp Ile  
85 90 95  
Asp Ala Cys Glu Ala Ala Asn Gln  
100

<210> 11056

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (73).. (1131)

<400> 11056

cagctggcgg ccagtgtctgg cttcaggagg ttgattacag tggcccttca ccgaggtcag 60  
cagtatgaaa gcatggacca catccaagct gagctgtcgg ctagagtcag ggagctggcc 120  
ccagctggga tgcccaccca gcagcaggtc ccccttctgt ctgtgggtgg ggacattggg 180  
gtccggaccg ttcagcacca agactgcagc ccccttgagcg gtgactatgt cattgaggat 240  
gtgcaagggg atgacaagcg atacttcogt cgactgatct tcctcagcaa caggaatgtg 300  
gtgcagtccg aagccagggt gctgaaggat gtgtotcaca aagcccagaa gaagcggaaa 360  
aaggacagga agaagcagcg gcctgtctgat goggaggacc tccctgcagc cccggggcag 420  
tccattgata agagttacct gtgtttgtgaa caccacaaag ccatgatcgc tggccttgcc 480  
ctgctgagaa acccagagct actcctagag atcccactgg cattgttggg ggtaggcctg 540  
ggcgggggca gcctccccct ctttgtccac gatcaatttc caaagtcctg cattgatgct 600  
gtggagatcg atccctccat gttggaagtg gccaccagtg ggtttggctt cttccagagt 660  
gaccgaatga aggtccacat tgcagatggc ctggactata tcgccagctt ggcaggagga 720  
ggagaagcac ggccttgcta cgatgtcata atgtttgatg ttgacagtaa ggaccaaca 780  
ctgggaatga gttgtccgcc cccagcattt gtggagcaat cttttctaca gaaggttaaa 840  
agcatcttga ctctgaagg tgtttttatt ctcaaccttg tgtgcccaga cttggggcta 900  
aaagactcag tgctggctgg gctcaaggca gtgttcccc tcctatatgt ctggcgaatt 960  
gagggtgaag tgaatgagat cctgttctgt cagctgcacc ctgagcaaaa acttgccaca 1020  
ccagagctcc tagaaacagc ccaggctttg gagcggaccc tgaggaagcc tgggaggggt 1080  
tgggatgaca cgtatgtctt gtcagatatg ctcaagacgg tgaaaattgt gtgactgctt 1140

09629469.072800

-4507/13211-

aggccaagca gccctcctgc ctagactgac ctiggactcc cagcctgccagaagaatgaag 1200  
aaatacaacg cacagtactt ttgaagcttc gtatttttct tggtttcaca ctcagctaca 1260  
tgtgacctcc agcttggtga ggttgctga agattaggga aaataaaaaat gtccttccca 1320  
tcttgcctc ttcagt 1336

<210> 11057

<211> 353

<212> PRT

<213> Homo sapiens

<400> 11057

Met	Asp	His	Ile	Gln	Ala	Glu	Leu	Ser	Ala	Arg	Val	Met	Glu	Leu	Ala
1				5					10					15	
Pro	Ala	Gly	Met	Pro	Thr	Gln	Gln	Gln	Val	Pro	Phe	Leu	Ser	Val	Gly
			20					25					30		
Gly	Asp	Ile	Gly	Val	Arg	Thr	Val	Gln	His	Gln	Asp	Cys	Ser	Pro	Leu
		35					40					45			
Ser	Gly	Asp	Tyr	Val	Ile	Glu	Asp	Val	Gln	Gly	Asp	Asp	Lys	Arg	Tyr
	50					55					60				
Phe	Arg	Arg	Leu	Ile	Phe	Leu	Ser	Asn	Arg	Asn	Val	Val	Gln	Ser	Glu
	65				70				75					80	
Ala	Arg	Leu	Leu	Lys	Asp	Val	Ser	His	Lys	Ala	Gln	Lys	Lys	Arg	Lys
				85					90					95	
Lys	Asp	Arg	Lys	Lys	Gln	Arg	Pro	Ala	Asp	Ala	Glu	Asp	Leu	Pro	Ala
			100					105					110		
Ala	Pro	Gly	Gln	Ser	Ile	Asp	Lys	Ser	Tyr	Leu	Cys	Cys	Glu	His	His
		115					120					125			
Lys	Ala	Met	Ile	Ala	Gly	Leu	Ala	Leu	Leu	Arg	Asn	Pro	Glu	Leu	Leu
	130					135					140				
Leu	Glu	Ile	Pro	Leu	Ala	Leu	Leu	Val	Val	Gly	Leu	Gly	Gly	Gly	Ser
	145				150					155					160
Leu	Pro	Leu	Phe	Val	His	Asp	Gln	Phe	Pro	Lys	Ser	Cys	Ile	Asp	Ala
			165					170						175	
Val	Glu	Ile	Asp	Pro	Ser	Met	Leu	Glu	Val	Ala	Thr	Gln	Trp	Phe	Gly
			180					185					190		
Phe	Ser	Gln	Ser	Asp	Arg	Met	Lys	Val	His	Ile	Ala	Asp	Gly	Leu	Asp
		195					200					205			
Tyr	Ile	Ala	Ser	Leu	Ala	Gly	Gly	Gly	Glu	Ala	Arg	Pro	Cys	Tyr	Asp
	210					215					220				
Val	Ile	Met	Phe	Asp	Val	Asp	Ser	Lys	Asp	Pro	Thr	Leu	Gly	Met	Ser
	225				230					235				240	
Cys	Pro	Pro	Pro	Ala	Phe	Val	Glu	Gln	Ser	Phe	Leu	Gln	Lys	Val	Lys
				245					250					255	
Ser	Ile	Leu	Thr	Pro	Glu	Gly	Val	Phe	Ile	Leu	Asn	Leu	Val	Cys	Arg
		260					265						270		
Asp	Leu	Gly	Leu	Lys	Asp	Ser	Val	Leu	Ala	Gly	Leu	Lys	Ala	Val	Phe
	275						280					285			

008220" 5462960

Pro Leu Leu Tyr Val Trp Arg Ile Glu Gly Glu Val Asn Glu Ile Leu  
 290 295 300  
 Phe Cys Gln Leu His Pro Glu Gln Lys Leu Ala Thr Pro Glu Leu Leu  
 305 310 315 320  
 Glu Thr Ala Gln Ala Leu Glu Arg Thr Leu Arg Lys Pro Gly Arg Gly  
 325 330 335  
 Trp Asp Asp Thr Tyr Val Leu Ser Asp Met Leu Lys Thr Val Lys Ile  
 340 345 350  
 Val

<210> 11058  
 <211> 1636  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (8).. (391)

<400> 11058  
 aaaaaatatg cccagatgg caaactttgt atacaacatg tacatgcatt tgatacagac 60  
 tacacatcat tatcatcaga ctttattaca actaccacct gctatggttag aagagggtga 120  
 ggaagticaa aatcaagaaa cagaattgga aacagaagaa gaggccatga ctgttcaagc 180  
 tgacatcata cccagtccaa cagacaccag ctgccgtcaa gaaactccag cctttcaaac 240  
 tgacaccacc cccagtgaga caggagccac ttccactcca gaagccatcc ttgctttatc 300  
 tgagaccacc cctactgtgg taggagctgt atctgcaccg gcagaagcta acacacctca 360  
 ggatgccaca tctgccccag aagagaccaa gtagccaaac ttagtgcctt ctaaaggagg 420  
 acatggcagt caaaaagtct gagtaaagct gttttttgta ttttatattt gcttctgcca 480  
 ttttaactgtc actaattaat gtttagttct tatatttggt aactgatttc ggtgtcttga 540  
 atatatTTTT ttaaattatg tgtatgaaca attctagttt catttggtca atcagaagag 600  
 caaataacca ttcttttcat gttttgatca ctgagtgtgt ctgtaatcat acctacatta 660  
 aaatcatttt ctatgaatat ataatatata cttcacattt ttagtgaact tctctaaaga 720  
 agaggacaga atatactgga ctttaaccacg aatacccttg agtgtccaaa ttgggaagga 780  
 acttgtttct tctgttatac tatcaaagtc ttaaattctg tttccttttt tottaccttt 840  
 gtttgotgtc tttatgtaaa gatattatta gcagtaagat acaggtttct tcaatctatc 900  
 aaagtgggta catgcatttc cttctctcaa atcttagaat gccttagaat cacctaagat 960  
 gtctgtttat tcttgaggca cacctcagac tgaatgagtc agaattctag gattagagcc 1020  
 taggaatcta tatttttagga ggttctccac accactaatg tttgggttgc tggcagagtg 1080  
 gcacagcca aggctgggta ggctgagcca ggatttgtca tcagctaaat aggaggactc 1140  
 tgccaaatca atctgggcaa gaagcaggat cctgagtcgt ggcaatgaga gtcagagaac 1200  
 ttaactcctg tgtgcagggt agaattttcc catggcagaa attctgagtt ttctgcctta 1260  
 tttttcttgg gataaccagc cacagggaga ctttcaggta aaatgtgggt caaatatggg 1320  
 aaggcagagg tacctgggac cttgctactc aagtatgatt tgtgaaccaa cagcatcaac 1380  
 atcgtattga agtttggtat ttatagaaat gcagaagttt gggctctgct ccaaacctat 1440  
 taaatctaaa tctacattgc aacaaagtc ccagggtgatt cacaggcaact ttgtagtttg 1500  
 agaggcaact tactaagatt actgtgttgt cttcacatga atgaggctta atgtagaatt 1560

-4509/13211-

accagtgaat gtgactaatg ttttctgaca agggacctct gottacaagg tccctgggca 1620  
tggtgcccag aactgg 1636

<210> 11059  
<211> 128  
<212> PRT  
<213> Homo sapiens

<400> 11059

Met	Pro	Gln	Met	Ala	Asn	Phe	Val	Tyr	Asn	Met	Tyr	Met	His	Leu	Ile
1				5					10					15	
Gln	Thr	Thr	His	His	Tyr	His	Gln	Thr	Leu	Leu	Gln	Leu	Pro	Pro	Ala
			20					25					30		
Met	Val	Glu	Gly	Glu	Glu	Val	Gln	Asn	Gln	Glu	Thr	Glu	Leu	Glu	
		35				40					45				
Thr	Glu	Glu	Glu	Ala	Met	Thr	Val	Gln	Ala	Asp	Ile	Ile	Pro	Ser	Pro
	50					55					60				
Thr	Asp	Thr	Ser	Cys	Arg	Gln	Glu	Thr	Pro	Ala	Phe	Gln	Thr	Asp	Thr
65					70					75				80	
Thr	Pro	Ser	Glu	Thr	Gly	Ala	Thr	Ser	Thr	Pro	Glu	Ala	Ile	Leu	Ala
				85					90					95	
Leu	Ser	Glu	Thr	Thr	Pro	Thr	Val	Val	Gly	Ala	Val	Ser	Ala	Pro	Ala
			100					105					110		
Glu	Ala	Asn	Thr	Pro	Gln	Asp	Ala	Thr	Ser	Ala	Pro	Glu	Glu	Thr	Lys
		115					120						125		

<210> 11060  
<211> 1425  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (129).. (1277)

<400> 11060

cggaggctct	aaaaaagaaat	aaacttaaga	aatcagagat	taagaaagaa	gactatgttt	60
taactaaatt	taatgttcag	aaaaccagat	ttggcttaac	tgaagcagga	gatctgtctg	120
ctgaagacat	gaagaaaatc	cgccatctct	ctctgattga	attgactgcc	ttttttgatg	180
ccttttgaat	tcaactgaaa	aggaacaaaa	cagagaaaagt	aaaaggacga	gacaatggga	240
tttttggagt	tccacttaca	gtcctcctgg	acgggtgaccg	aaagaaagac	cctggagtga	300
aagttccctt	ggtattacaa	aaattttttg	agaaagttag	ggaatcaggt	ctggaatctg	360
aaggaatttt	tgcactttca	ggatgtactg	ctaaagtcaa	gcaataccgt	gaagaacttg	420
atgccaaagt	taatgctgat	aaatttaaat	gggacaaaaat	gtgccataga	gaagctgcag	480
taatgttgaa	agcgtttttc	agagaactac	ccacctctct	cttccctgtg	gaatatatac	540
ctgccttcat	cagtctaata	gaaagagggc	ctcacgtcaa	agtacagttt	caagccttac	600

008220" 59462960

```

acctcatggt catggcgctg cctgatgcca acagagatgc agctcaggcc ctcatgacat 660
tcttcaataa agtgattgcc aatgaatcaa aaaaccgaat gagtctgtgg aacatttcta 720
cagtgatggc accgaacctt ttcttcagta gaagcaaaca ctctgattat gaagaattac 780
tgtagcaaaa cactgcggcc cacatcatcc gcctaattgt taagtaccag aagattttgt 840
ggaaggttcc gtctttctta atcactcaag taagaagaat gaatgaagcc acgatgctat 900
tgaagaagca gctcccaagt gtcaggaagc tgotcaggag gaagaccctc gagcgggaga 960
ctgcaagccc caagacttca aaggtaactgc aaaaatcacc ctgggcaaga cgaatgtctg 1020
acgtgccgga aggagtcata cgggtccatg ctccacttct ctccaagggtg tccatggcca 1080
ttcaactcaa caatcaaacc aaagccaaag acatattggc aaaatttcaa tatgaaaaca 1140
gaatactgca ctggcagcga gctgcacttt ccttccctaaa tggaaaatgg gttaaaaaag 1200
aaagagaaga gtcgacagag accaacagga gccccaaaca tgtattcctc ttcactattg 1260
gcctggacat ctccacatag gcagtcatat agagacttga aatatcattc aagggtttg 1320
ggtatccagt agacttttag ttacatatac tacaaaactg actttgtact ctcaagtaga 1380
ccttcgtag aaagaaaatg tttctaataa aaatgtatta gaact 1425

```

<210> 11061  
 <211> 383  
 <212> PRT  
 <213> Homo sapiens

<400> 11061

Met	Lys	Lys	Ile	Arg	His	Leu	Ser	Leu	Ile	Glu	Leu	Thr	Ala	Phe	Phe	1	5	10	15
Asp	Ala	Phe	Gly	Ile	Gln	Leu	Lys	Arg	Asn	Lys	Thr	Glu	Lys	Val	Lys	20	25	30	
Gly	Arg	Asp	Asn	Gly	Ile	Phe	Gly	Val	Pro	Leu	Thr	Val	Leu	Leu	Asp	35	40	45	
Gly	Asp	Arg	Lys	Lys	Asp	Pro	Gly	Val	Lys	Val	Pro	Leu	Val	Leu	Gln	50	55	60	
Lys	Phe	Phe	Glu	Lys	Val	Glu	Glu	Ser	Gly	Leu	Glu	Ser	Glu	Gly	Ile	65	70	75	80
Phe	Arg	Leu	Ser	Gly	Cys	Thr	Ala	Lys	Val	Lys	Gln	Tyr	Arg	Glu	Glu	85	90	95	
Leu	Asp	Ala	Lys	Phe	Asn	Ala	Asp	Lys	Phe	Lys	Trp	Asp	Lys	Met	Cys	100	105	110	
His	Arg	Glu	Ala	Ala	Val	Met	Leu	Lys	Ala	Phe	Phe	Arg	Glu	Leu	Pro	115	120	125	
Thr	Ser	Leu	Phe	Pro	Val	Glu	Tyr	Ile	Pro	Ala	Phe	Ile	Ser	Leu	Met	130	135	140	
Glu	Arg	Gly	Pro	His	Val	Lys	Val	Gln	Phe	Gln	Ala	Leu	His	Leu	Met	145	150	155	160
Val	Met	Ala	Leu	Pro	Asp	Ala	Asn	Arg	Asp	Ala	Ala	Gln	Ala	Leu	Met	165	170	175	
Thr	Phe	Phe	Asn	Lys	Val	Ile	Ala	Asn	Glu	Ser	Lys	Asn	Arg	Met	Ser	180	185	190	
Leu	Trp	Asn	Ile	Ser	Thr	Val	Met	Ala	Pro	Asn	Leu	Phe	Ser	Arg	195	200	205		

002220.69462960

Ser Lys His Ser Asp Tyr Glu Glu Leu Leu Leu Ala Asn Thr Ala Ala  
 210 215 220  
 His Ile Ile Arg Leu Met Leu Lys Tyr Gln Lys Ile Leu Trp Lys Val  
 225 230 235 240  
 Pro Ser Phe Leu Ile Thr Gln Val Arg Arg Met Asn Glu Ala Thr Met  
 245 250 255  
 Leu Leu Lys Lys Gln Leu Pro Ser Val Arg Lys Leu Leu Arg Arg Lys  
 260 265 270  
 Thr Leu Glu Arg Glu Thr Ala Ser Pro Lys Thr Ser Lys Val Leu Gln  
 275 280 285  
 Lys Ser Pro Ser Ala Arg Arg Met Ser Asp Val Pro Glu Gly Val Ile  
 290 295 300  
 Arg Val His Ala Pro Leu Ser Lys Val Ser Met Ala Ile Gln Leu  
 305 310 315 320  
 Asn Asn Gln Thr Lys Ala Lys Asp Ile Leu Ala Lys Phe Gln Tyr Glu  
 325 330 335  
 Asn Arg Ile Leu His Trp Gln Arg Ala Ala Leu Ser Phe Leu Asn Gly  
 340 345 350  
 Lys Trp Val Lys Lys Glu Arg Glu Glu Ser Thr Glu Thr Asn Arg Ser  
 355 360 365  
 Pro Lys His Val Phe Leu Phe Thr Ile Gly Leu Asp Ile Ser Thr  
 370 375 380

<210> 11062  
 <211> 1952  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (794).. (1648)

<400> 11062  
 cagatagtag cgatagtgag tatatcagtg atgatgagca gaagtctaag aacgagccag 60  
 aagacacaga ggacaaagaa ggttgtcaga tggacaaaga gccatctgct gttaaaaaaa 120  
 agcccaagcc tacaaaccca gtggagatta aagaggagct gaaaagcacg tcaccagcca 180  
 gcgagaaggg agaccctgga gcagtcaagg acaaggccag ccctgagcct gagaaggact 240  
 tttccgaaaa ggcaaaacct tcacctcacc ccataaagga taaactgaag ggaaaagatg 300  
 agacggattc cccaacagtc catttggggc tggactctga ttcagagagc gaacttgtca 360  
 tagatttagg agaagaccat tctgggcggg agggctcgaaa aaataagaag gaacccaaag 420  
 aaccatctcc caaacaggat ggcatgtggc agttgttaggt aaaactccac catccacgac 480  
 ggtgggcagc cattctcccc cggaacacc ggtgctcacc cgctcttcg cccaaacttc 540  
 cgcggctggc gccacagcca ccaccagcac gtctctccag gtcaccgtca cggccccggc 600  
 ccccgccgcc acaggaagcc cagtgaacaa gcagaggccg cttttaccga aggagactgc 660  
 cccggccgtg cagcgggtcg tgtggaactc atcaactgtc cagcagaagg agatcacaca 720  
 gagcccatcc acgtccacca tcacctggt gaccagcaca cagtcacgc ccttggtcac 780  
 cagctcgggg tccatgagca ccttgtgtc ctgagtcaac gotgacctgc ccatcgccac 840

0032/0" 69462960

```

tgcctcagct gatgtcgccg ctgatattgc caagtacact agcaaaatga tggatgcaat 900
aaaaggaaca atgacagaaa tatacaacga tctttctaaa aacactactg gaagcacaat 960
agctgagatt cgcaggctga ggatcgagat agagaagctc cagtggctgc accagcaaga 1020
gctctccgaa atgaaacaca acttagagct gaccatggcg gagatgcggc agagcctgga 1080
gcaggagcgg gaccggctca tcgccgaggt gaagaagcag ctggagttagg agaagcagca 1140
ggcgggtggat gagaccaaga agaagcagtg gtgcgccaac tgcaagaagg aggccatctt 1200
ttactgctgt tggaacacca gctactgtga ctacccttgc cagcaagccc actggcctga 1260
gcacatgaag tcctgcaccc agtcagctac tgctcctcag caggaagcgg atgctgaggt 1320
gaacacagaa acactaaata agtcctccca ggggagctcc tcgagcacac aatcagcacc 1380
ttcagaaacg gccagcgcct ccaaagagaa ggagacgtca gctgagaaaa gcaaggagag 1440
tggtctgacc cttgaccttt ctggctccag agagacgccc tcctccattc tcttaggctc 1500
caaccaaggc tctgaccatt cccggagtaa taaatccagt tggagcagca gtgatgagaa 1560
gaggggatcg acacgttccg atcacaacac cagtaccagc acgaagagcc tcctcccga 1620
agagtctcgg ctggacacct tctgggacta gcagtgaatc gggacacaaa ccaccacccc 1680
cattggggaga aaaaccaga cgccaggaaa agaagaaaca acaaaggcag gagaacagcc 1740
actttcagac ttgaaaatga caaaaccctc agttgagcct gagcccccg cgcgggggct 1800
gctacactac aggacaccca gcacggcgtt tgactgcaga ctgttcaccc acacgagccc 1860
tgtgtttttg gtgtaaataa tgtacaattt gtggatgtca ttgaatctag aggactttcc 1920
cctttttata tttgtattaa ctttaactta tt                                     1952

```

<210> 11063  
 <211> 285  
 <212> PRT  
 <213> Homo sapiens

<400> 11063

Met	Ser	Thr	Leu	Val	Ser	Ser	Val	Asn	Ala	Asp	Leu	Pro	Ile	Ala	Thr
1				5				10						15	
Ala	Ser	Ala	Asp	Val	Ala	Ala	Asp	Ile	Ala	Lys	Tyr	Thr	Ser	Lys	Met
			20					25					30		
Met	Asp	Ala	Ile	Lys	Gly	Thr	Met	Thr	Glu	Ile	Tyr	Asn	Asp	Leu	Ser
			35				40					45			
Lys	Asn	Thr	Thr	Gly	Ser	Thr	Ile	Ala	Glu	Ile	Arg	Arg	Leu	Arg	Ile
			50				55				60				
Glu	Ile	Glu	Lys	Leu	Gln	Trp	Leu	His	Gln	Gln	Glu	Leu	Ser	Glu	Met
					70					75					80
Lys	His	Asn	Leu	Glu	Leu	Thr	Met	Ala	Glu	Met	Arg	Gln	Ser	Leu	Glu
				85					90					95	
Gln	Glu	Arg	Asp	Arg	Leu	Ile	Ala	Glu	Val	Lys	Lys	Gln	Leu	Glu	Leu
			100					105					110		
Glu	Lys	Gln	Gln	Ala	Val	Asp	Glu	Thr	Lys	Lys	Lys	Gln	Trp	Cys	Ala
			115				120					125			
Asn	Cys	Lys	Lys	Glu	Ala	Ile	Phe	Tyr	Cys	Cys	Trp	Asn	Thr	Ser	Tyr
						135					140				
Cys	Asp	Tyr	Pro	Cys	Gln	Ala	His	Trp	Pro	Glu	His	Met	Lys	Ser	
					150				155					160	
Cys	Thr	Gln	Ser	Ala	Thr	Ala	Pro	Gln	Gln	Glu	Ala	Asp	Ala	Glu	Val

00629469.072800

<210> 11064  
 <211> 1880  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (15).. (1526)

gcgtgccggg	tgtcatggcg	gcctgcaggt	actgtctgtc	gtgcctccgg	ctccggcccc	60
tgagcgatgg	tcctttcctt	ctgccacggc	gggatcgggc	actcaccag	ttgcaagtgc	120
gagcactatg	gagtagcgca	gggtctcgag	ctgtggcctg	ggacttaggc	aacaggaaat	180
tagaaatata	ttctggaaag	ctggccagat	ttgcagatgg	ctctgtgtga	gtacagtcag	240
gtgacactgc	agtaatggtc	acagcgggtca	gtaaaacaaa	accttcccc	tcccagttta	300
tgccttttgt	ggttgactac	agacaaaaag	ctgtcgcagc	aggtagaatt	cccacaaaact	360
atctgagaag	agaggtttgt	acttctgata	aagaaattct	aacaagtcga	ataatagatc	420
gttcaattag	accgctcttt	ccagctggct	acttctatga	tacacaggtt	ctgtgtaatc	480
tgttagcagt	agatggtgta	aatgagcctg	atgtcctagc	aattaatggc	gottccgtag	540
ccctctcatt	atcagatatt	ccttggaatg	gacctgttgg	ggcagtaoga	ataggaataa	600
ttgatggaga	atatgtttgt	aacccaacaa	gaaaagaaat	gtcttctagt	actttaaatt	660
tagtggttgc	tggagcacct	aaaagtcaga	ttgtcatgtt	ggaagcctct	gcagagaaca	720
ttttacagca	ggacttttgc	catgctatca	aagtgggagt	gaaatatacc	caacaaataa	780
ttcaggggcat	tcagcagttg	gtaaaagaaa	ctggtgttac	caagaggaca	cctcagaagt	840
tatttaccoc	ttcgccagag	attgtgaaat	atactcataa	acttgctatg	gagagactct	900
atgcagtttt	tacagattac	gagcatgaca	aagtttccag	agatgaagct	gttaacaaaa	960
taagattaga	tacggaggaa	caactaaaag	aaaaatttcc	agaagccgat	ccatatgaaa	1020
taatagaatc	cttcaatgtt	gttgcaaagg	aagtttttag	aagtattgtt	ttgaatgaat	1080
acaaaagggtg	cgatggtcgg	gatttgactt	cacttaggaa	tgtaaagttg	gaggtagata	1140
tgtttaaaac	ccttcattgga	tcagcattat	ttcaaagagg	acaaacacag	gtgctttgta	1200
ccgttacatt	tgattcatta	gaatctggtg	ttaaagtcaga	tcaagttata	acagctataa	1260



```

atgggataaa agataaaaat ttcatgctgc actacagatt tcttccttat gcaactaatg 1320
aaattggcaa agtcactggt ttaaataaaa gagaacttgg gcatggtgct ctgtctgaga 1380
aagctttgta tctgtttatt cccagagatt ttctttctct ttccgccatc ttccgcgcc 1440
gccacaatgg tgcgcatgaa tgtcctggca gatgctctca agagtatcaa caatgccgaa 1500
aagagaggca aacgccaggt gcttattagg ccgtgctcca aagtcacgt ccggtttctc 1560
actgtgatga tgaagcatgg ttacattggc gaatttgaaa tcattgatga ccacagagct 1620
gggaaaattg ttgtgaacct cacaggcagg ctaaacaagt gtggggtgat cagccccaga 1680
tttgacgtgc aactcaaaga cctggaaaaa tggcagaata atctgcttcc atcccgccag 1740
tttggtttca ttgtactgac aacctcagct ggcatcatgg accatgaaga agcaagacga 1800
aaacacacag gagggaaaat cctgggattc tttttctagg gatgtaatac atatatttac 1860
aaataaaatg cctcatggac                                     1880

```

<210> 11065  
 <211> 504  
 <212> PRT  
 <213> Homo sapiens

<400> 11065

Met	Ala	Ala	Cys	Arg	Tyr	Cys	Cys	Ser	Cys	Leu	Arg	Leu	Arg	Pro	Leu
1				5				10						15	
Ser	Asp	Gly	Pro	Phe	Leu	Leu	Pro	Arg	Arg	Asp	Arg	Ala	Leu	Thr	Gln
			20					25					30		
Leu	Gln	Val	Arg	Ala	Leu	Trp	Ser	Ser	Ala	Gly	Ser	Arg	Ala	Val	Ala
		35					40					45			
Val	Asp	Leu	Gly	Asn	Arg	Lys	Leu	Glu	Ile	Ser	Ser	Gly	Lys	Leu	Ala
	50					55					60				
Arg	Phe	Ala	Asp	Gly	Ser	Ala	Val	Val	Gln	Ser	Gly	Asp	Thr	Ala	Val
	65				70					75				80	
Met	Val	Thr	Ala	Val	Ser	Lys	Thr	Lys	Pro	Ser	Pro	Ser	Gln	Phe	Met
				85					90					95	
Pro	Leu	Val	Val	Asp	Tyr	Arg	Gln	Lys	Ala	Ala	Ala	Ala	Gly	Arg	Ile
		100					105						110		
Pro	Thr	Asn	Tyr	Leu	Arg	Arg	Glu	Val	Gly	Thr	Ser	Asp	Lys	Glu	Ile
	115						120					125			
Leu	Thr	Ser	Arg	Ile	Ile	Asp	Arg	Ser	Ile	Arg	Pro	Leu	Phe	Pro	Ala
	130					135					140				
Gly	Tyr	Phe	Tyr	Asp	Thr	Gln	Val	Leu	Cys	Asn	Leu	Leu	Ala	Val	Asp
145				150						155					160
Gly	Val	Asn	Glu	Pro	Asp	Val	Leu	Ala	Ile	Asn	Gly	Ala	Ser	Val	Ala
			165						170					175	
Leu	Ser	Leu	Ser	Asp	Ile	Pro	Trp	Asn	Gly	Pro	Val	Gly	Ala	Val	Arg
			180					185					190		
Ile	Gly	Ile	Ile	Asp	Gly	Glu	Tyr	Val	Val	Asn	Pro	Thr	Arg	Lys	Glu
	195					200					205				
Met	Ser	Ser	Ser	Thr	Leu	Asn	Leu	Val	Val	Ala	Gly	Ala	Pro	Lys	Ser
	210					215					220				
Gln	Ile	Val	Met	Leu	Glu	Ala	Ser	Ala	Glu	Asn	Ile	Leu	Gln	Gln	Asp

09629469.072800

-4515/13211-

225                      230                      235                      240  
Phe Cys His Ala Ile Lys Val Gly Val Lys Tyr Thr Gln Gln Ile Ile  
                                 245                      250                      255  
Gln Gly Ile Gln Gln Leu Val Lys Glu Thr Gly Val Thr Lys Arg Thr  
                                 260                      265                      270  
Pro Gln Lys Leu Phe Thr Pro Ser Pro Glu Ile Val Lys Tyr Thr His  
                                 275                      280                      285  
Lys Leu Ala Met Glu Arg Leu Tyr Ala Val Phe Thr Asp Tyr Glu His  
290                      295                      300  
Asp Lys Val Ser Arg Asp Glu Ala Val Asn Lys Ile Arg Leu Asp Thr  
305                      310                      315                      320  
Glu Glu Gln Leu Lys Glu Lys Phe Pro Glu Ala Asp Pro Tyr Glu Ile  
                                 325                      330                      335  
Ile Glu Ser Phe Asn Val Val Ala Lys Glu Val Phe Arg Ser Ile Val  
                                 340                      345                      350  
Leu Asn Glu Tyr Lys Arg Cys Asp Gly Arg Asp Leu Thr Ser Leu Arg  
355                      360                      365  
Asn Val Ser Cys Glu Val Asp Met Phe Lys Thr Leu His Gly Ser Ala  
370                      375                      380  
Leu Phe Gln Arg Gly Gln Thr Gln Val Leu Cys Thr Val Thr Phe Asp  
385                      390                      395                      400  
Ser Leu Glu Ser Gly Ile Lys Ser Asp Gln Val Ile Thr Ala Ile Asn  
                                 405                      410                      415  
Gly Ile Lys Asp Lys Asn Phe Met Leu His Tyr Glu Phe Pro Pro Tyr  
                                 420                      425                      430  
Ala Thr Asn Glu Ile Gly Lys Val Thr Gly Leu Asn Arg Arg Glu Leu  
435                      440                      445  
Gly His Gly Ala Leu Ala Glu Lys Ala Leu Tyr Pro Val Ile Pro Arg  
450                      455                      460  
Asp Phe Pro Ser Leu Ser Ala Ile Phe Pro Arg Arg His Asn Gly Ala  
465                      470                      475                      480  
His Glu Cys Pro Gly Arg Cys Ser Gln Glu Tyr Gln Gln Cys Arg Lys  
                                 485                      490                      495  
Glu Arg Gln Thr Pro Gly Ala Tyr  
500

<210> 11066

<211> 1725

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (467).. (937)

<400> 11066

tctgaaatat ggcattgccc tctcatctt acaggtggaa aaactgaagc ttgagataag 60

09629469.072800

09629469.072800

```

caacctaaac agtatcacac agctaattgag gagtcaaattg caggcctgcc tgtcccaaaa 120
gtccagattc ttccctttcct agaattgtcag ggctagggaag gtgctgagac cctctgggtct 180
acccccaccc cctaatttta tgaaagacaa ggataaagtc ccagggaaac aatgtgttca 240
aggctaccca gtgacgcatg accccataca ggctctataa ggatgttaca ctcggtcatc 300
tctacatgcc tggtagctag cacaggatcc tggtagattg gaggtgcttg agtaactgtg 360
aatacaggaa catagtcatt taatagcaaa gctagagccc tgtcccaaaa ggccagctta 420
ctgcctcccc tccccctcac gcctggcatc ccacctggat gtatgcatgg ttggtcggat 480
gaaactcctc cccaacagga ttaggacact cgcctcaca gcgataggcg ttgtactgct 540
tggggttagat gatccaggag ccccatccga tcagggtgaa gtccacctgg aacttgacct 600
tccgacacag ttgacttctg tctggcaagt gatgtcgacg gtgcctcttg cccactccc 660
aggacagctg tccctcctgg gcccgccagg agctctcggc tccccacagc aaggtggacc 720
caccagctg cctctgctcc tgcgagaggt tggagtagag cataaggagc acattggtgg 780
caggcggtgt gggggggccgc ggccagcact ctccagctac cctggacatc tgccttcca 840
gggccccagg gcgcttcagc cacttggaga gaggcctggt cacctccaaa accatgctgc 900
ccaaggaaaa ggtgacctgg gacaaagtga cagtgaatag gtccatctga aaccgctcta 960
agcagctgtc tgaagcctgc tctgtgtcgg gctttggctg gtggaaaatc tcaatggcaa 1020
gtgagccctc agtggggagg tccacagggc tggacagctg cagccggagc tcagcccatg 1080
ccagatcctc ttgttggctc aggaaggaga agtcaaaagc aaacgtccag ttctgcccac 1140
ccactgccac atctgggtag gagaaaacca agaaggaagg agggtagtg agggcctccc 1200
ccagcctcag tcagtgtcac aaccaccata gctcttgctg gaggccttac cttatataga 1260
attacctcg aattctcacc ccaactctat gagttggtaa gattttcgag tcccttttag 1320
agatgaggaa aactgaggct cagtgtggtt aaaagatctg accaagggtg cattcttggg 1380
aggtggcaga gccaaagata aacctggatt tgcccaactg ccaagcccag actccgaatt 1440
actgttcttc cagtccccct tccaagataa cttgcacagc cagaggacag tcagtaaaaa 1500
tgtgatgagt tgcattctcc cctcccctgt ctctcccat acatgaagtc tggccagcat 1560
ggagaaaccc tgtctctact aaaaatacaa aattggctgg gcgtggtggt ttgcgcctgt 1620
aatcccagcc actcgagaat catttgaacc cgggaggcag aggttgcagt gagccgggac 1680
agtgccattg cactccagcc tgcacaacaa gagtgaaact gtctc 1725

```

<210> 11067

<211> 157

<212> PRT

<213> Homo sapiens

<400> 11067

```

Met Val Gly Arg Met Lys Leu Leu Pro Asn Arg Ile Arg Thr Leu Ala
 1             5             10             15
Leu Thr Ala Ile Gly Val Val Leu Leu Gly Val Asp Asp Pro Gly Ala
          20             25             30
Pro Ser Asp Gln Val Glu Val His Leu Glu Leu Asp Leu Pro Thr Gln
          35             40             45
Leu Thr Ser Val Trp Gln Val Met Ser Thr Val Pro Leu Ala Pro Leu
          50             55             60
Pro Gly Gln Leu Ser Leu Gly Pro Pro Gly Ala Leu Gly Phe Pro
          65             70             75             80
Gln Gln Gly Gly Pro Thr Gln Leu Pro Leu Leu Arg Glu Val Gly
          85             90             95

```

-4517/13211-

Val Glu His Lys Glu His Ile Gly Gly Arg Arg Cys Gly Gly Pro Arg  
                  100                  105                  110  
Pro Ala Leu Ser Ser Tyr Pro Gly His Leu Leu Leu Gln Gly Pro Arg  
                  115                  120                  125  
Ala Leu Gln Pro Leu Gly Glu Arg Pro Gly His Leu Gln Asn His Ala  
                  130                  135                  140  
Ala Gln Gly Lys Gly Asp Leu Gly Gln Ser Asp Ser Glu  
145                  150                  155

<210> 11068  
<211> 1790  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (502).. (1596)

<400> 11068  
agcgcgcggc tgatacccg gactgggctg cggcgggttag tcctctcccg gccgccgtcg 60  
cctccgacat attgcccgca ggagctgctg cggcgaagcg gagagcaccg gggggaggag 120  
atgggaggac gaagaggtcc caacaggaca tcttactgtc gaaatccgct ctgtgagccg 180  
ggatcctcgg ggggctctag tggaagccac acttccagtg caccggtgac cagtgttcgt 240  
tcccgcacca ggagcagttc tggaacaggc ctctccagcc ctctcttgcc caccctaaact 300  
gttgtgcctc tacagcactg caagatcccc gagctgccag tccaggccag cattctgttt 360  
gagttgcagc tcttcttctg ctagctcata gcactcttgc tccactacat caacatctac 420  
aagacagtgt ggtggtatcc accttcccac ccacctccc acacctccct gaacttccat 480  
ctgatcgact tcaacttgct gatggtgacc accatcgttc tgggccgcgc cttcattggg 540  
tccatcgtag aggaggcctc tcagaggggg aaggtctccc tctttcgctc catcctgctg 600  
ttcctcactc gcttcaccgt tctcacggca acaggctgga gtctgtgccc atccctcatc 660  
cacctcttca ggacctactc cttcctgaac ctctgtttcc totgtatatc gtttgggatg 720  
tacattccgt tccctgcagc gaattgcgac ctccgcaaga caagcctctt caaccacatg 780  
gcctccatgg ggccccggga ggcggtcagt ggcttggaag agagccggga ctacctcctg 840  
aactgcggg agacgtggaa gcagcacaca agacagctgt atggcccgga cgcctatgcc 900  
accatgcct gctgcctgtc accagcctc atccgcagtg aggtggagtt cctcaagatg 960  
gacttcaact ggcgcatgaa ggaagtgtc gtcagctcca tgctgagcgc ctactatgtg 1020  
gcctttgtgc ctgtctgggt cgtgaagaac acacattact atgacaagcg ctggtcctgt 1080  
gaactcttcc tgctggtgtc catcagcacc tccgtgatcc tcatgcagca cctgctgcct 1140  
gccagctact gtgacctgct gcacaaggcc gccgcccatc tgggctgttg gcagaagggtg 1200  
gaccagcgc tgtgtctcaa cgtgctgcag caccgtgga ctgaagaatg catgtggccg 1260  
cagggcgtgc tggtaagca cagcaagaac gtctacaaag ccgtaggcca ctacaacgtg 1320  
gotatccct ctgacgtctc ccacttccgc ttccatttct ttttcagcaa acccctgcgg 1380  
atcctcaaca tctcctgct gctggagggc gctgtcattg tctatcagct gtactcccta 1440  
atgtcctctg aaaagtggca ccagaccatc tcgctggccc tcatcctctt cagcaactac 1500  
tatgccttct tcaagctgct ccgggaccgc ttggtattgg gcaaggccta ctactactct 1560  
gtagccccc agagagacct ggaccacct ttctcctgag ccttgggggtc acctcaggga 1620  
cagcgtccag gcttcagcca agggctccct ggcaaggggc tgttgggttag aagtgggtgt 1680

008270 59462960

gggggggaca aaagacaaaa aaatccacca gagctttgta tttttgttac gtactgtttc 1740  
tttgataatt gatgtgataa ggaaaaaagt cctattttta tactcccaac 1790

<210> 11069  
<211> 365  
<212> PRT  
<213> Homo sapiens

<400> 11069

Met	Val	Thr	Thr	Ile	Val	Leu	Gly	Arg	Arg	Phe	Ile	Gly	Ser	Ile	Val	
1				5					10					15		
Lys	Glu	Ala	Ser	Gln	Arg	Gly	Lys	Val	Ser	Leu	Phe	Arg	Ser	Ile	Leu	
			20					25					30			
Leu	Phe	Leu	Thr	Arg	Phe	Thr	Val	Leu	Thr	Ala	Thr	Gly	Trp	Ser	Leu	
		35					40					45				
Cys	Arg	Ser	Leu	Ile	His	Leu	Phe	Arg	Thr	Tyr	Ser	Phe	Leu	Asn	Leu	
	50					55					60					
Leu	Phe	Leu	Cys	Tyr	Pro	Phe	Gly	Met	Tyr	Ile	Pro	Phe	Leu	Gln	Leu	
65					70					75					80	
Asn	Cys	Asp	Leu	Arg	Lys	Thr	Ser	Leu	Phe	Asn	His	Met	Ala	Ser	Met	
				85					90					95		
Gly	Pro	Arg	Glu	Ala	Val	Ser	Gly	Leu	Ala	Lys	Ser	Arg	Asp	Tyr	Leu	
			100					105					110			
Leu	Thr	Leu	Arg	Glu	Thr	Trp	Lys	Gln	His	Thr	Arg	Gln	Leu	Tyr	Gly	
	115						120					125				
Pro	Asp	Ala	Met	Pro	Thr	His	Ala	Cys	Cys	Leu	Ser	Pro	Ser	Leu	Ile	
	130					135					140					
Arg	Ser	Glu	Val	Glu	Phe	Leu	Lys	Met	Asp	Phe	Asn	Trp	Arg	Met	Lys	
145					150					155				160		
Glu	Val	Leu	Val	Ser	Ser	Met	Leu	Ser	Ala	Tyr	Tyr	Val	Ala	Phe	Val	
				165					170					175		
Pro	Val	Trp	Phe	Val	Lys	Asn	Thr	His	Tyr	Tyr	Asp	Lys	Arg	Trp	Ser	
			180					185					190			
Cys	Glu	Leu	Phe	Leu	Leu	Val	Ser	Ile	Ser	Thr	Ser	Val	Ile	Leu	Met	
	195						200					205				
Gln	His	Leu	Leu	Pro	Ala	Ser	Tyr	Cys	Asp	Leu	Leu	His	Lys	Ala	Ala	
	210					215						220				
Ala	His	Leu	Gly	Cys	Trp	Gln	Lys	Val	Asp	Pro	Ala	Leu	Cys	Ser	Asn	
225					230					235					240	
Val	Leu	Gln	His	Pro	Trp	Thr	Glu	Glu	Cys	Met	Trp	Pro	Gln	Gly	Val	
				245					250					255		
Leu	Val	Lys	His	Ser	Lys	Asn	Val	Tyr	Lys	Ala	Val	Gly	His	Tyr	Asn	
		260						265					270			
Val	Ala	Ile	Pro	Ser	Asp	Val	Ser	His	Phe	Arg	Phe	His	Phe	Phe	Phe	
	275						280					285				
Ser	Lys	Pro	Leu	Arg	Ile	Leu	Asn	Ile	Leu	Leu	Leu	Glu	Gly	Ala		
	290					295					300					

09629469.072800

Val	Ile	Val	Tyr	Gln	Leu	Tyr	Ser	Leu	Met	Ser	Ser	Glu	Lys	Trp	His
305					310				315						320
Gln	Thr	Ile	Ser	Leu	Ala	Leu	Ile	Leu	Phe	Ser	Asn	Tyr	Tyr	Ala	Phe
			325					330						335	
Phe	Lys	Leu	Leu	Arg	Asp	Arg	Leu	Val	Leu	Gly	Lys	Ala	Tyr	Ser	Tyr
		340					345						350		
Ser	Ala	Ser	Pro	Gln	Arg	Asp	Leu	Asp	His	Arg	Phe	Ser			
	355						360					365			

<210> 11070  
 <211> 2311  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (48).. (1034)

<400> 11070

tgagaacatt	aagaaaagat	tatgctcggg	acagtaaaga	ggaagaaatg	gatgatatgg	60
atagagacct	aggagatgaa	tatggatgga	aacagggtgca	tggagatgta	tttagaccat	120
caagtcaccc	actgatattt	tcctctctga	ttggttctgg	atgtcagata	tttgctgtgt	180
ctctcatcgt	tattattggt	gcaatgatag	aagattttata	tactgagagg	ggatcaatgc	240
tcagtacagc	catatttgct	tatgctgcta	cgtctccagt	gaatggttat	tttgaggagaa	300
gtctgtatgc	tagacaagga	ggaaggagat	ggataaagca	gatgtttatt	ggggcattcc	360
ttatcccagc	tatggtgtgt	ggcactgcct	tcttcatcaa	tttcatagcc	atttattacc	420
atgcttcaag	agccattcct	tttggaacaa	tgggtggccgt	ttgttgcac	tgtttttttg	480
ttattcttcc	tctaaatctt	gttggtacaa	tacttggccg	aaatctgtca	ggtcagccca	540
actttccttg	tcgtgtcaat	gctgtgcctc	gtcctatacc	ggagaaaaaa	tggttcatgg	600
agcctgcggg	tattgtttgc	ctgggtggaa	ttttaccttt	tggttcaatc	tttattgaaa	660
tgtatttcat	cttcacgtct	ttctgggcat	ataagatcta	ttatgtctat	ggcttcatga	720
tgctgggtgct	ggttatcctg	tgcattgtga	ctgtctgtgt	gactattgtg	tgcacatatt	780
ttctactaaa	tgcagaagat	taccggtggc	aatggacaag	ttttctctct	gctgcatcaa	840
ctgcaatcta	tgtttacatg	tattcctttt	actactat	tttcaaaaaca	aagatgtatg	900
gcttatttca	aacatcattt	tactttggat	atatggcggg	atttagcaca	gccttgggga	960
taatgtgtgg	agcgattggg	tacatgggaa	caagtgcctt	tgtccgaaaa	atctatacta	1020
atgtgaaaat	tgactagaga	cccaagaaaa	cctggaactt	tggatcaatt	tctttttcat	1080
aggggtggaa	cttgacacagc	aaaaacaaac	aaacgcaaga	agagatttgg	gctttaacac	1140
actgggtact	ttgtgggtct	ctctttcgtc	gggtggcttaa	agtaacatct	atttccattg	1200
atcctagggt	cttctgact	gctttctcca	actgttcaca	gcaaagtctt	ggattttatg	1260
cagtaggcat	tactacagta	catggcta	cttcccaaaa	actagctcat	taaagatgaa	1320
atagaccagc	tctcttcagt	gaagaggaca	aatagtttat	ttaaagcatt	tgttccaata	1380
aaataaatag	agggaactt	ggatgctaaa	attacatgaa	taggaatctt	cctggcactt	1440
agtgtttcta	tgttattgaa	aaatgatgtt	ccagaaagat	tacttttttc	ctcttatttt	1500
tactgccatt	gtcgacctat	tgtgggacat	ttttatatat	tgaatctggg	ttcttttttg	1560
actttttttt	ttcccaatcc	aacagcatcc	ttttttttta	aagagagaat	tagaaaatat	1620
taaatcctgc	atgtaatat	tctgctgtca	totttagttg	accaacttcc	catttattta	1680

008220.69462960

```

tcttaaaact atacagttac atcttaattc catccaaaga agatacagtt tgaagacaga 1740
agtgtactct ctacaatgca atttactgta cagttagaaa gcaaagtgtt aaatggagaa 1800
gatacttggtt tttattaaac attttgagat ttagataaac tacattttta ctgaatgtct 1860
aaagtgatta tcttttttcc cccaagtta gtcttaaata ttttgggttt gaatgaaggt 1920
tttacataag aaattattaa aaacaagggg ggtgggtaat aaatgtatat aacattaaat 1980
aatgtaacgt aggtgtagat tcccaaatgc atttggatgt acagatcgac tacagagtac 2040
ttttttctta tgatgattgg tgtagaaatg tgtgatttgg gtgggctttt acatcttgcc 2100
taccattgca tgaacattg gggtttcttc aaaatgtgtg tgcatactt cttttgggag 2160
gggggttggtt ttcttctgtt tttttctga gactcctaca ggagccaaat ttgtaattta 2220
gagacactta attttggtta tctgtctgg gacacttaag taacatctaa agcattattg 2280
ctttagaatg ttcaaataaa atttctgac c                                     2311

```

<210> 11071  
 <211> 329  
 <212> PRT  
 <213> Homo sapiens

<400> 11071

Met	Asp	Asp	Met	Asp	Arg	Asp	Leu	Gly	Asp	Glu	Tyr	Gly	Trp	Lys	Gln
1				5					10					15	
Val	His	Gly	Asp	Val	Phe	Arg	Pro	Ser	Ser	His	Pro	Leu	Ile	Phe	Ser
			20					25					30		
Ser	Leu	Ile	Gly	Ser	Gly	Cys	Gln	Ile	Phe	Ala	Val	Ser	Leu	Ile	Val
		35					40					45			
Ile	Ile	Val	Ala	Met	Ile	Glu	Asp	Leu	Tyr	Thr	Glu	Arg	Gly	Ser	Met
		50				55					60				
Leu	Ser	Thr	Ala	Ile	Phe	Val	Tyr	Ala	Ala	Thr	Ser	Pro	Val	Asn	Gly
					70					75					80
Tyr	Phe	Gly	Gly	Ser	Leu	Tyr	Ala	Arg	Gln	Gly	Gly	Arg	Arg	Trp	Ile
				85					90					95	
Lys	Gln	Met	Phe	Ile	Gly	Ala	Phe	Leu	Ile	Pro	Ala	Met	Val	Cys	Gly
			100					105					110		
Thr	Ala	Phe	Phe	Ile	Asn	Phe	Ile	Ala	Ile	Tyr	Tyr	His	Ala	Ser	Arg
		115					120					125			
Ala	Ile	Pro	Phe	Gly	Thr	Met	Val	Ala	Val	Cys	Cys	Ile	Cys	Phe	Phe
		130				135					140				
Val	Ile	Leu	Pro	Leu	Asn	Leu	Val	Gly	Thr	Ile	Leu	Gly	Arg	Asn	Leu
		145			150					155					160
Ser	Gly	Gln	Pro	Asn	Phe	Pro	Cys	Arg	Val	Asn	Ala	Val	Pro	Arg	Pro
				165					170					175	
Ile	Pro	Glu	Lys	Lys	Trp	Phe	Met	Glu	Pro	Ala	Val	Ile	Val	Cys	Leu
			180					185					190		
Gly	Gly	Ile	Leu	Pro	Phe	Gly	Ser	Ile	Phe	Ile	Glu	Met	Tyr	Phe	Ile
		195					200					205			
Phe	Thr	Ser	Phe	Trp	Ala	Tyr	Lys	Ile	Tyr	Tyr	Val	Tyr	Gly	Phe	Met
	210					215					220				
Met	Leu	Val	Leu	Val	Ile	Leu	Cys	Ile	Val	Thr	Val	Cys	Val	Thr	Ile

003220.5946396

225 230 235 240  
Val Cys Thr Tyr Phe Leu Leu Asn Ala Glu Asp Tyr Arg Trp Gln Trp  
245 250 255  
Thr Ser Phe Leu Ser Ala Ala Ser Thr Ala Ile Tyr Val Tyr Met Tyr  
260 265 270  
Ser Phe Tyr Tyr Tyr Phe Phe Lys Thr Lys Met Tyr Gly Leu Phe Gln  
275 280 285  
Thr Ser Phe Tyr Phe Gly Tyr Met Ala Val Phe Ser Thr Ala Leu Gly  
290 295 300  
Ile Met Cys Gly Ala Ile Gly Tyr Met Gly Thr Ser Ala Phe Val Arg  
305 310 315 320  
Lys Ile Tyr Thr Asn Val Lys Ile Asp  
325

<210> 11072  
<211> 2123  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (127).. (1647)

<400> 11072  
aaaaaaaaaa aaacatatca gaatcacact gtggtttttc tgggatcaga gaagggaatc 60  
atcttgaagt ttttggccag aataggaaat agtggttttc taaatgacag ccttttcctg 120  
gaggagatga gtgttttaca ctctgaaaaa tgcagctatg atggagtcga agacaaaagg 180  
atcatgggca tgcagctgga cagagcaagc agctctctgt atgttgcgtt ctctacctgt 240  
gtgataaagg ttccccttgg ccggtgtgaa cgacatggga agtgtaaaaa aacctgtatt 300  
gcctccagag acccatattg tggatggata aagggaagggtg gtgcctgcag ccatttatca 360  
cccaacagca gactgacttt tgagcaggac atagagcgtg gcaatacaga tggctctgggg 420  
gactgtcaca attcctttgt ggcaactgaat ggagtgattc gggaaaagta cctcaaaggc 480  
cacgaccagc tggttcccggt caccctcttg gccattgcag tcatcctggc ttctgtcatg 540  
ggggccgtct tctcgggcat caccgtctac tgogtctgtg atcatcggcg caaagacgtg 600  
gctgtggtgc agcgcaagga gaaggagctc acccactogc gccgggggctc catgagcagc 660  
gtcaccaagc tcagcggcct ctttggggac actcaatcca aagaccctaaa gccggaggcc 720  
atcctcacgc cactcatgca caacggcaag ctgcgcactc ccggcaaacac ggccaagatg 780  
ctcattaaag cagaccagca ccacctggac ctgacggccc tccccacccc agagtcaacc 840  
ccaacgctgc agcagaagcg gaagcccagc cgcggcagcc gcgagtggga gaggaaccag 900  
aacctcatca atgcctgcac aaaggacatg ccccccatgg gctccccctgt gattcccacg 960  
gacctgcccc tgcgggcctc ccccagccac atccccagcg tgggtggtcct gcccatcacg 1020  
cagcaggggt accagcatga gtacgtggac cagcccaaaa tgagcgaggt ggcccagatg 1080  
gcgctggagg accaggccgc cacactggag tataagacca tcaaggaaca tctcagcagc 1140  
aagagtccca accatgggggt gaaccttgtg gagaacctgg acagcctgcc ccccaaagt 1200  
ccacagcggg aggcctccct gggtcccccg ggagcctccc tgtctcagac cggcttaagc 1260  
aagcggctgg aaatgcacca ctctcttcc tacggggttg actataagag gagctacccc 1320  
acgaactcgc tcacgagaag ccaccaggcc accactctca aaagaaacaa cactaactcc 1380

000220.69462960



```

tccaattcct ctcacctctc cagaaaccag agctttggca ggggagacaa cccgccgcc 1440
gccccgcaga gggtaggactc catccagggtg cacagctccc agccatctgg ccaggccgtg 1500
actgtctcga ggcagcccag cctcaacgcc tacaactcac tgacaaggtc ggggctgaag 1560
cgtacgccct cgctaaagcc ggacgtaccc cccaaaccat cctttgctcc cctttccaca 1620
tccatgaagc ccaatgatgc gtgtacataa tcccaggggg aggggggtcag gtgtcgaacc 1680
agcaggcaag gcgagggtgc cgtcagctc agcaagggtc tcaactgcct cgagtacca 1740
ccagaccaag aaggcctgcg gcagagccga ggacgctggg tcctcctctc tgggacacag 1800
gggtactcac gaaaactggg ccgctgtggt ttggaagggt ttgcaacggc ggggactcac 1860
cttcattctc ttctttcact ttccccaca ccctacaaca ggtcggaccc acaaaagact 1920
tcagttatca tcacaaacat gagccaaaag cacataccta ccccatcccc cccccccaca 1980
cacacacaca catgcacaca acacatacac acacacgcac agaggtgaac agaaaactgaa 2040
acattttgtc cacaacctca cgggacgtgg ccagactggg ttgctgttcc aacctgcaaa 2100
acacaaatac attttttaaa atc 2123

```

<210> 11073  
 <211> 507  
 <212> PRT  
 <213> Homo sapiens

<400> 11073

Met	Ser	Val	Tyr	Asn	Ser	Glu	Lys	Cys	Ser	Tyr	Asp	Gly	Val	Glu	Asp
1				5					10					15	
Lys	Arg	Ile	Met	Gly	Met	Gln	Leu	Asp	Arg	Ala	Ser	Ser	Ser	Leu	Tyr
			20					25					30		
Val	Ala	Phe	Ser	Thr	Cys	Val	Ile	Lys	Val	Pro	Leu	Gly	Arg	Cys	Glu
			35				40					45			
Arg	His	Gly	Lys	Cys	Lys	Lys	Thr	Cys	Ile	Ala	Ser	Arg	Asp	Pro	Tyr
	50					55				60					
Cys	Gly	Trp	Ile	Lys	Glu	Gly	Gly	Ala	Cys	Ser	His	Leu	Ser	Pro	Asn
65					70				75					80	
Ser	Arg	Leu	Thr	Phe	Glu	Gln	Asp	Ile	Glu	Arg	Gly	Asn	Thr	Asp	Gly
				85					90					95	
Leu	Gly	Asp	Cys	His	Asn	Ser	Phe	Val	Ala	Leu	Asn	Gly	Val	Ile	Arg
			100					105					110		
Glu	Ser	Tyr	Leu	Lys	Gly	His	Asp	Gln	Leu	Val	Pro	Val	Thr	Leu	Leu
		115					120					125			
Ala	Ile	Ala	Val	Ile	Leu	Ala	Phe	Val	Met	Gly	Ala	Val	Phe	Ser	Gly
		130				135					140				
Ile	Thr	Val	Tyr	Cys	Val	Cys	Asp	His	Arg	Arg	Lys	Asp	Val	Ala	Val
145					150					155				160	
Val	Gln	Arg	Lys	Glu	Lys	Glu	Leu	Thr	His	Ser	Arg	Arg	Gly	Ser	Met
			165						170					175	
Ser	Ser	Val	Thr	Lys	Leu	Ser	Gly	Leu	Phe	Gly	Asp	Thr	Gln	Ser	Lys
			180					185					190		
Asp	Pro	Lys	Pro	Glu	Ala	Ile	Leu	Thr	Pro	Leu	Met	His	Asn	Gly	Lys
		195				200						205			
Leu	Ala	Thr	Pro	Gly	Asn	Thr	Ala	Lys	Met	Leu	Ile	Lys	Ala	Asp	Gln

003220.59462960

-4523/13211-

210						215						220					
His	His	Leu	Asp	Leu	Thr	Ala	Leu	Pro	Thr	Pro	Glu	Ser	Thr	Pro	Thr		
225					230					235						240	
Leu	Gln	Gln	Lys	Arg	Lys	Pro	Ser	Arg	Gly	Ser	Arg	Glu	Trp	Glu	Arg		
			245						250					255			
Asn	Gln	Asn	Leu	Ile	Asn	Ala	Cys	Thr	Lys	Asp	Met	Pro	Pro	Met	Gly		
			260					265					270				
Ser	Pro	Val	Ile	Pro	Thr	Asp	Leu	Pro	Leu	Arg	Ala	Ser	Pro	Ser	His		
		275					280					285					
Ile	Pro	Ser	Val	Val	Val	Leu	Pro	Ile	Thr	Gln	Gln	Gly	Tyr	Gln	His		
290						295					300						
Glu	Tyr	Val	Asp	Gln	Pro	Lys	Met	Ser	Glu	Val	Ala	Gln	Met	Ala	Leu		
305					310					315					320		
Glu	Asp	Gln	Ala	Ala	Thr	Leu	Glu	Tyr	Lys	Thr	Ile	Lys	Glu	His	Leu		
			325						330					335			
Ser	Ser	Lys	Ser	Pro	Asn	His	Gly	Val	Asn	Leu	Val	Glu	Asn	Leu	Asp		
		340					345						350				
Ser	Leu	Pro	Pro	Lys	Val	Pro	Gln	Arg	Glu	Ala	Ser	Leu	Gly	Pro	Pro		
		355				360						365					
Gly	Ala	Ser	Leu	Ser	Gln	Thr	Gly	Leu	Ser	Lys	Arg	Leu	Glu	Met	His		
370					375						380						
His	Ser	Ser	Ser	Tyr	Gly	Val	Asp	Tyr	Lys	Arg	Ser	Tyr	Pro	Thr	Asn		
385					390					395					400		
Ser	Leu	Thr	Arg	Ser	His	Gln	Ala	Thr	Thr	Leu	Lys	Arg	Asn	Asn	Thr		
			405						410					415			
Asn	Ser	Ser	Asn	Ser	Ser	His	Leu	Ser	Arg	Asn	Gln	Ser	Phe	Gly	Arg		
			420					425					430				
Gly	Asp	Asn	Pro	Pro	Pro	Ala	Pro	Gln	Arg	Val	Asp	Ser	Ile	Gln	Val		
		435				440						445					
His	Ser	Ser	Gln	Pro	Ser	Gly	Gln	Ala	Val	Thr	Val	Ser	Arg	Gln	Pro		
450					455						460						
Ser	Leu	Asn	Ala	Tyr	Asn	Ser	Leu	Thr	Arg	Ser	Gly	Leu	Lys	Arg	Thr		
465					470					475					480		
Pro	Ser	Leu	Lys	Pro	Asp	Val	Pro	Pro	Lys	Pro	Ser	Phe	Ala	Pro	Leu		
			485						490					495			
Ser	Thr	Ser	Met	Lys	Pro	Asn	Asp	Ala	Cys	Thr							
			500					505									

<210> 11074  
<211> 2356  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (33).. (779)

000220-09162960

<400> 11074

atttaaattgg ttcaattgat ggcatttggc acatgtttac ccctaagctt gaaataatgc 60  
tggagcccaa ggtctggaga gaagctgcta ctcaagtgtt ctttgcccta ggtctgggat 120  
ttggtggtgt cattgccttt tcaagctaca acaagagaga caacaactgc cactttgatg 180  
ctgtcctggt gtcccttcac aattttttca cttctgtcct ggcaacattg gtggtgtttg 240  
cagttctggg cttcaaagca aatgtcataa atgagaaatg cattacacaa aattcagaga 300  
cgatcatgaa atttttgaaa atggggaaca ttagtcagga tattattccc catcatatca 360  
acctttcaac tgttactgta gaagactatc atttagttta tgacatcatt caaaaagtga 420  
aagaagaaga gtttcctgct cttcatctca attcctgtaa aattgaagaa gagctaaata 480  
aagctgttca ggggaccggc ttagctttta ttgcctttac agaagcgatg acacattttc 540  
ctgcctctcc cttctgggtca gtgatgtttt tctctatgct ggtcaatcta ggccttggca 600  
gtatgtttgg aaccattgaa gggattgtca cgcctattgt ggacactttc aaagtggagga 660  
aagaaattct tactgttata tgttgtcttc tggcattttg tattggcctg atattgtgca 720  
acgctctgga aattactttg ttacaatgtt tgatgattat tctgctacac tgcctctgct 780  
aattgtagtc attttggaga atattgctgt atgctttgtt tatggcatag ataagtttat 840  
ggaagacctt aaagatatgc tgggctttgc tcccagcaga tattactact atatgtggaa 900  
atatatttct cctctaattgc tattatcatt gctaataagct agtgttgtga atatgggatt 960  
aagtcctcct ggctataacg catggattga agataaggca tctgaagaat ttctgagcta 1020  
tccaacatgg ggactggttg tttgtgtctc tctggttgct tttgcaatac tcccagtcct 1080  
tgtatgtttc attgttctgc gcttcaacct tatagatgat agttctggta atttagcatc 1140  
tgtgacctat aagagaggaa gggctcctgaa agagcctgtg aacttagagg gcgatgatac 1200  
aagcctcatt cacggaaaaa taccgagcga gatgccatct ccaaattttg gtaaaaaatat 1260  
ttatcgaaaa cagagtggat ccccaactct ggatactgct cccaatggac ggtatggaat 1320  
agggtacttg atggcagata ttatgccaga tatgccagaa tctgatttgt agctggggga 1380  
aaagtcagtg ggttttattt ggttcatttt taccaatgaa cattggccct agtaggagaa 1440  
gcattaggct tcacttatca gagggcaatc tcagggtgtc cgtggctgtg atctttaatc 1500  
ctaacagtat atgtcagttc aacttgagca ttcttttggg ttcttttggt tacattttgtg 1560  
cagaaaggat tgcagacaaa tcttaggagg gctgaggtag atgtttgcca ggattttttt 1620  
ttaagtacct ttggtgtatt ttcaaatatt tctatctctt aaaaaaatgg tattacctca 1680  
gtttctaata atttctgggt ttagtagtgt tgacaattaa aaatggtata cattaaaatt 1740  
tataagtttg ccttcagggt aacttccagt gtcacaatga gcagttctgt aagtgggtgc 1800  
ctctcagcac atttctatga atatattatg tagataggct gtattgattt tggtagcatt 1860  
gacaccttct taggcaatta gttgaagaaa actgcaaaat attttcttat gtaatagctg 1920  
tatagagcaa tagcaatcaa agcatgagaa ggcactaacg ctgggatgaa agatgagatt 1980  
cagaggtgac tgagaatcat gtgagtgatg gctgtatatt ttgtgtaaaa tatatgtgtg 2040  
aaaatgaact aagagtgagt tactcagcac tctcaagaat tatgcagatt ctgcattttt 2100  
cttatgccgt gtgcctaaaa acctacttga tatttattgt ggtttcaaga ttattcatag 2160  
tatattttata caatatactt gcaatgcatt taagtactta aagtactaat ttgaaaactt 2220  
gaagcaagat ggcattttta ttaatatatt tctgttttgc ttctgtttta tgcaaatata 2280  
aatcattttt aagtattgtt taaaattgta atgcattaca ttttaatcta caaataaaca 2340  
aagtttaaaa atgaat 2356

<210> 11075

<211> 249

<212> PRT

<213> Homo sapiens

09629459.072800

-4525/13211-

<400> 11075

Met Phe Thr Pro Lys Leu Glu Ile Met Leu Glu Pro Lys Val Trp Arg  
1 5 10 15  
Glu Ala Ala Thr Gln Val Phe Phe Ala Leu Gly Leu Gly Phe Gly Gly  
20 25 30  
Val Ile Ala Phe Ser Ser Tyr Asn Lys Arg Asp Asn Asn Cys His Phe  
35 40 45  
Asp Ala Val Leu Val Ser Phe Ile Asn Phe Phe Thr Ser Val Leu Ala  
50 55 60  
Thr Leu Val Val Phe Ala Val Leu Gly Phe Lys Ala Asn Val Ile Asn  
65 70 75 80  
Glu Lys Cys Ile Thr Gln Asn Ser Glu Thr Ile Met Lys Phe Leu Lys  
85 90 95  
Met Gly Asn Ile Ser Gln Asp Ile Ile Pro His His Ile Asn Leu Ser  
100 105 110  
Thr Val Thr Val Glu Asp Tyr His Leu Val Tyr Asp Ile Ile Gln Lys  
115 120 125  
Val Lys Glu Glu Glu Phe Pro Ala Leu His Leu Asn Ser Cys Lys Ile  
130 135 140  
Glu Glu Glu Leu Asn Lys Ala Val Gln Gly Thr Gly Leu Ala Phe Ile  
145 150 155 160  
Ala Phe Thr Glu Ala Met Thr His Phe Pro Ala Ser Pro Phe Trp Ser  
165 170 175  
Val Met Phe Phe Leu Met Leu Val Asn Leu Gly Leu Gly Ser Met Phe  
180 185 190  
Gly Thr Ile Glu Gly Ile Val Thr Pro Ile Val Asp Thr Phe Lys Val  
195 200 205  
Arg Lys Glu Ile Leu Thr Val Ile Cys Cys Leu Leu Ala Phe Cys Ile  
210 215 220  
Gly Leu Ile Leu Cys Asn Ala Leu Glu Ile Thr Leu Leu Gln Cys Leu  
225 230 235 240  
Met Ile Ile Leu Leu His Cys Leu Cys  
245

<210> 11076

<211> 2037

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (124).. (1650)

<400> 11076

tgcaagtatg acttttgctg gatttgcctt gaagagtgga aaaaacatag ttogtccact 60  
ggaggttatt acagatgtac tcgctatgaa gtcattcaac acgtggagga gcaatccaag 120  
gaaatgactg tggaggctga gaaaaaacac aaacgatttc aggaacttga cagatttatg 180

008220 59462960

09529469.072800

```

cactattata caagatttaa aaacatgag catagttatc agctagaaca acgccttctt 240
aaaacagcca aagaaaagat ggagcaattg agcagagctc tcaaagaaac tgaaggaggc 300
tgtccagata ccactttcat tgaagatgca gticcatgtgc tcttaaaaaac tcggcgcatt 360
ctcaagtgtt cttatccata tggatttttc ttggaaccta aaagcacaaa gaaagaaatt 420
tttgaactaa tgcaaacaga cctagaaatg gtcactgaag accttgccca gaaagtcaat 480
aggccttacc ttgcacaccc ccgcacaaag atcatcaaag cagcatgcct tgtacagcag 540
aagaggcaag aattcctggc atctgtggct cggggagtag ctctgcaga ctcaccagaa 600
gctccaaggc gcagctttgc tgggtggaaca tgggattggg aatatttagg atttgcata 660
ccagaggaat atgctgaatt tcagtatcgg aggaggcaca gacaacgtcg tcgaggagat 720
gttcacagtc tactcagtaa tcctccagac cctgatgagc caagtgaag cactttagat 780
attccagaag gcggcagcag cagccgcagg cctggcacat ccgtggtaag ttctgcatct 840
atgagtgtgc tgcacagctc ttccctgogt gactacaccc ctgccagtcg ctctgaaaac 900
caggactctc ttcaggctct gagttccttg gatgaagacg atcccaatat acttcttgca 960
atacagttat cactgcaaga gtctgggctg gccctgatg aagaaactag agacttctc 1020
agtaatgaag catccttagg tgcgataggc acttctttac cttccaggct ggactctgtc 1080
cccagaaata cagatagccc tcgggctgca ttgagcagct ctgagctttt ggaacttggt 1140
gacagcctca tgagactagg agcagagagt gacccatttt caactgacac cctgagctca 1200
cacctctca gtgaggcaag aagtgatttc tgtccctcat ctagtatcc tgactcagct 1260
ggccaggacc ccaacatcaa tgacaatctt ctgggcaaca tcatggcttg gtttcatgac 1320
atgaaccctc agagtattgc cctgattcct ccagcaacta cagaaatcag tgcagattcc 1380
cagctccctt gtatcaaaga cgggtcagaa ggtgtgaagg atgtggaaat ggtgctgcca 1440
gaagattcaa tgtttgaaga tgccagtgtc agtgaaggta gaggaacca gatagaagaa 1500
aatcctttgg aagaaaatat tctggcgggg gaagcagcat ctcaagctgg tgacagtgg 1560
aacgaggcag ccaacagagg agatggttca gatgtttcaa gtcaaacacc tcaaacctca 1620
agtactggc ttgaacaagt acatttagtg tgaactgcac acatctgggc tctaaatgaa 1680
ttacaggtac agatggtatg ctagggtggag tatgcttgat agagactttg attcacttaa 1740
ttccaactca gtgataaacc actgacatta gggttgaata cagagaagtt ccttgaatg 1800
gtagcttcat tttttatatt aaccttacag ggaatttcct ttgtacttaa ttgaatagct 1860
tttccctttt ttgctgacaa aaagaagagc aagagaaaaga gaaacaaaaa tgaaataaat 1920
aagtagtatt ccacactcta agaaaatgca gtctcttatt tagcctaggc ttgacaatac 1980
ttaaattgaa catttaaact aaaggcttac tccctaattc ttgggtggct ttccctt 2037

```

<210> 11077  
 <211> 509  
 <212> PRT  
 <213> Homo sapiens

<400> 11077  
 Met Thr Val Glu Ala Glu Lys Lys His Lys Arg Phe Gln Glu Leu Asp  
 1 5 10 15  
 Arg Phe Met His Tyr Tyr Thr Arg Phe Lys Asn His Glu His Ser Tyr  
 20 25 30  
 Gln Leu Glu Gln Arg Leu Leu Lys Thr Ala Lys Glu Lys Met Glu Gln  
 35 40 45  
 Leu Ser Arg Ala Leu Lys Glu Thr Glu Gly Gly Cys Pro Asp Thr Thr  
 50 55 60  
 Phe Ile Glu Asp Ala Val His Val Leu Leu Lys Thr Arg Arg Ile Leu

65 70 75 80  
Lys Cys Ser Tyr Pro Tyr Gly Phe Phe Leu Glu Pro Lys Ser Thr Lys  
85 90 95  
Lys Glu Ile Phe Glu Leu Met Gln Thr Asp Leu Glu Met Val Thr Glu  
100 105 110  
Asp Leu Ala Gln Lys Val Asn Arg Pro Tyr Leu Arg Thr Pro Arg His  
115 120 125  
Lys Ile Ile Lys Ala Ala Cys Leu Val Gln Gln Lys Arg Gln Glu Phe  
130 135 140  
Leu Ala Ser Val Ala Arg Gly Val Ala Pro Ala Asp Ser Pro Glu Ala  
145 150 155 160  
Pro Arg Arg Ser Phe Ala Gly Gly Thr Trp Asp Trp Glu Tyr Leu Gly  
165 170 175  
Phe Ala Ser Pro Glu Glu Tyr Ala Glu Phe Gln Tyr Arg Arg Arg His  
180 185 190  
Arg Gln Arg Arg Arg Gly Asp Val His Ser Leu Leu Ser Asn Pro Pro  
195 200 205  
Asp Pro Asp Glu Pro Ser Glu Ser Thr Leu Asp Ile Pro Glu Gly Gly  
210 215 220  
Ser Ser Ser Arg Arg Pro Gly Thr Ser Val Val Ser Ser Ala Ser Met  
225 230 235 240  
Ser Val Leu His Ser Ser Ser Leu Arg Asp Tyr Thr Pro Ala Ser Arg  
245 250 255  
Ser Glu Asn Gln Asp Ser Leu Gln Ala Leu Ser Ser Leu Asp Glu Asp  
260 265 270  
Asp Pro Asn Ile Leu Leu Ala Ile Gln Leu Ser Leu Gln Glu Ser Gly  
275 280 285  
Leu Ala Leu Asp Glu Glu Thr Arg Asp Phe Leu Ser Asn Glu Ala Ser  
290 295 300  
Leu Gly Ala Ile Gly Thr Ser Leu Pro Ser Arg Leu Asp Ser Val Pro  
305 310 315 320  
Arg Asn Thr Asp Ser Pro Arg Ala Ala Leu Ser Ser Ser Glu Leu Leu  
325 330 335  
Glu Leu Gly Asp Ser Leu Met Arg Leu Gly Ala Glu Ser Asp Pro Phe  
340 345 350  
Ser Thr Asp Thr Leu Ser Ser His Pro Leu Ser Glu Ala Arg Ser Asp  
355 360 365  
Phe Cys Pro Ser Ser Ser Asp Pro Asp Ser Ala Gly Gln Asp Pro Asn  
370 375 380  
Ile Asn Asp Asn Leu Leu Gly Asn Ile Met Ala Trp Phe His Asp Met  
385 390 395 400  
Asn Pro Gln Ser Ile Ala Leu Ile Pro Pro Ala Thr Thr Glu Ile Ser  
405 410 415  
Ala Asp Ser Gln Leu Pro Cys Ile Lys Asp Gly Ser Glu Gly Val Lys  
420 425 430  
Asp Val Glu Met Val Leu Pro Glu Asp Ser Met Phe Glu Asp Ala Ser  
435 440 445  
Val Ser Glu Gly Arg Gly Thr Gln Ile Glu Glu Asn Pro Leu Glu Glu

008220 69462960

450		455		460
Asn Ile Leu Ala Gly Glu	Ala Ala Ser Gln Ala	Gly Asp Ser Gly Asn		
465		470		475
Glu Ala Ala Asn Arg Gly	Asp Gly Ser Asp Val	Ser Ser Gln Thr Pro		480
	485		490	
Gln Thr Ser Ser Asp Trp	Leu Glu Gln Val His	Leu Val		495
	500		505	

<210> 11078  
 <211> 1820  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (21).. (1820)

<400> 11078

```

aactttcttc tgatgaagag atgaaaatgg cggagatgcg accaccatta attgaaacct 60
ctattaacca gccaaaagtc gtagcactta gtaataacaa aaaagatgat acaaaggaaa 120
cagattcttt atcagatgaa gttacacaca atagcaatca gaataacagc aattgttctt 180
ctccatctcg gatgtctgat tcagtttctc ttaatactga tagtagtcaa gacacctcac 240
tgtctctcc agtgaaacaa actcatattg atattaattc caaaatcagg caagaagatg 300
aaaattttta cagcctttta caaaatggag atatttttaa cagttcaaca gaggaaaagt 360
tcaaagctca tgataaaaaa gattttaact tacctgaata tgatttgaat gttgaagagc 420
gattagtctt aattgagaaa agtggtgact caacagccac agctgatgac actcacaaat 480
tagatcatat caatatgaat cttaataaac ttataactaa tgatacattt caaccagaga 540
tcattgaaag atcaaaaaa caggatattg tgcttggaa aagcttttta agcatataat 600
ctaaagagga aactgggcac ttggaaaatg gaaacaagta tcctaatttg gaatccgtaa 660
ataaggtaaa tggacattct gaggaaactt ccagctctcc taataggact gaaccacatg 720
acagtgattg ttctgttgac ttaggtattt caaaagcac tgaagatctc tccctcaga 780
aaagtggctc agttggatct gttgtgaaat ctcatagcat aactaatatg gagattggag 840
ggctaaaaat ctatgatatt cttagtata atggacctca gcagccaagt acaaccgtta 900
aaatcacatc tgctgttgat ggaaaaaata tagtcaggag caagtctgcc aactgttgt 960
atgatcaacc attgcaggta ttactgggtt cttcctcatc ttctgattta atatcaggaa 1020
caaaggcaat tttcaagttt gattcaaatc ataatccga agagccaaat ataataagag 1080
gccccacaag tggccccaca tctgcacctc aaatatatgg tcctccacag tataatatcc 1140
aatacagtag cagtgtgca gtcaaagaca ctttgtggca ctccaaacaa aatccccaaa 1200
tagaccatgc cagttttcct cctcagctcc ttcttagatc agagagcaca gaaaatcaaa 1260
gttatgctaa acattctgcc aatatgaatt tctctaata taacaatgtt cgagctaata 1320
ctgcatacca ttacatcag agacttggcc cagcaagaca tggggaaatg tgggcatct 1380
caccaaacga ccgacttatt cctgcagtaa ctogaagta aatccagcgg caaagtagtg 1440
tgtctccac agcctctgta aatcttgggt atccaggctc tacaaggcgg gtcagattc 1500
ctgaaggaga ttatttatca tacagagagt tccactcagc gggaagaact cctccaatga 1560
tgccaggatc acagagaccc cttctgcac gaacatacag catagatggg ccaaatgcat 1620
caagacctca gagtgtctga cctctatta atgaaatacc agagagaact atgtcagtta 1680
gtgatttcaa ttattcacgg actagtcctt caaaaagacc aatgcaagg gttggttctg 1740
    
```

003220.59462960

-4529/13211-

agcattcttt attagatcct ccaggaaaaa gtaaagtcc tcgtgactgg agagaacaag 1800  
tacttcgaca tattgaagcc 1820

<210> 11079

<211> 600

<212> PRT

<213> Homo sapiens

<400> 11079

Met	Lys	Met	Ala	Glu	Met	Arg	Pro	Pro	Leu	Ile	Glu	Thr	Ser	Ile	Asn	
1				5					10					15		
Gln	Pro	Lys	Val	Val	Ala	Leu	Ser	Asn	Asn	Lys	Lys	Asp	Asp	Thr	Lys	
			20					25					30			
Glu	Thr	Asp	Ser	Leu	Ser	Asp	Glu	Val	Thr	His	Asn	Ser	Asn	Gln	Asn	
		35					40					45				
Asn	Ser	Asn	Cys	Ser	Ser	Pro	Ser	Arg	Met	Ser	Asp	Ser	Val	Ser	Leu	
	50					55					60					
Asn	Thr	Asp	Ser	Ser	Gln	Asp	Thr	Ser	Leu	Cys	Ser	Pro	Val	Lys	Gln	
65					70					75					80	
Thr	His	Ile	Asp	Ile	Asn	Ser	Lys	Ile	Arg	Gln	Glu	Asp	Glu	Asn	Phe	
				85					90					95		
Asn	Ser	Leu	Leu	Gln	Asn	Gly	Asp	Ile	Leu	Asn	Ser	Ser	Thr	Glu	Glu	
			100				105						110			
Lys	Phe	Lys	Ala	His	Asp	Lys	Lys	Asp	Phe	Asn	Leu	Pro	Glu	Tyr	Asp	
		115					120					125				
Leu	Asn	Val	Glu	Glu	Arg	Leu	Val	Leu	Ile	Glu	Lys	Ser	Val	Asp	Ser	
		130				135						140				
Thr	Ala	Thr	Ala	Asp	Asp	Thr	His	Lys	Leu	Asp	His	Ile	Asn	Met	Asn	
145					150					155					160	
Leu	Asn	Lys	Leu	Ile	Thr	Asn	Asp	Thr	Phe	Gln	Pro	Glu	Ile	Met	Glu	
				165					170					175		
Arg	Ser	Lys	Thr	Gln	Asp	Ile	Val	Leu	Gly	Thr	Ser	Phe	Leu	Ser	Ile	
			180					185					190			
Asn	Ser	Lys	Glu	Glu	Thr	Gly	His	Leu	Glu	Asn	Gly	Asn	Lys	Tyr	Pro	
		195				200						205				
Asn	Leu	Glu	Ser	Val	Asn	Lys	Val	Asn	Gly	His	Ser	Glu	Glu	Thr	Ser	
	210					215					220					
Gln	Ser	Pro	Asn	Arg	Thr	Glu	Pro	His	Asp	Ser	Asp	Cys	Ser	Val	Asp	
225					230					235					240	
Leu	Gly	Ile	Ser	Lys	Ser	Thr	Glu	Asp	Leu	Ser	Pro	Gln	Lys	Ser	Gly	
				245					250					255		
Pro	Val	Gly	Ser	Val	Val	Lys	Ser	His	Ser	Ile	Thr	Asn	Met	Glu	Ile	
			260					265					270			
Gly	Gly	Leu	Lys	Ile	Tyr	Asp	Ile	Leu	Ser	Asp	Asn	Gly	Pro	Gln	Gln	
	275						280					285				
Pro	Ser	Thr	Thr	Val	Lys	Ile	Thr	Ser	Ala	Val	Asp	Gly	Lys	Asn	Ile	
	290					295						300				

008270' 69462960



-4530/13211-

Val	Arg	Ser	Lys	Ser	Ala	Thr	Leu	Leu	Tyr	Asp	Gln	Pro	Leu	Gln	Val
305					310					315					320
Phe	Thr	Gly	Ser	Ser	Ser	Ser	Ser	Asp	Leu	Ile	Ser	Gly	Thr	Lys	Ala
				325					330					335	
Ile	Phe	Lys	Phe	Asp	Ser	Asn	His	Asn	Pro	Glu	Glu	Pro	Asn	Ile	Ile
			340					345					350		
Arg	Gly	Pro	Thr	Ser	Gly	Pro	Gln	Ser	Ala	Pro	Gln	Ile	Tyr	Gly	Pro
		355					360					365			
Pro	Gln	Tyr	Asn	Ile	Gln	Tyr	Ser	Ser	Ser	Ala	Ala	Val	Lys	Asp	Thr
		370				375					380				
Leu	Trp	His	Ser	Lys	Gln	Asn	Pro	Gln	Ile	Asp	His	Ala	Ser	Phe	Pro
385					390					395					400
Pro	Gln	Leu	Leu	Pro	Arg	Ser	Glu	Ser	Thr	Glu	Asn	Gln	Ser	Tyr	Ala
				405					410					415	
Lys	His	Ser	Ala	Asn	Met	Asn	Phe	Ser	Asn	His	Asn	Asn	Val	Arg	Ala
			420				425						430		
Asn	Thr	Ala	Tyr	His	Leu	His	Gln	Arg	Leu	Gly	Pro	Ala	Arg	His	Gly
		435					440					445			
Glu	Met	Trp	Ala	Ile	Ser	Pro	Asn	Asp	Arg	Leu	Ile	Pro	Ala	Val	Thr
	450					455					460				
Arg	Ser	Thr	Ile	Gln	Arg	Gln	Ser	Ser	Val	Ser	Ser	Thr	Ala	Ser	Val
465					470					475					480
Asn	Leu	Gly	Asp	Pro	Gly	Ser	Thr	Arg	Arg	Ala	Gln	Ile	Pro	Glu	Gly
			485						490					495	
Asp	Tyr	Leu	Ser	Tyr	Arg	Glu	Phe	His	Ser	Ala	Gly	Arg	Thr	Pro	Pro
			500					505					510		
Met	Met	Pro	Gly	Ser	Gln	Arg	Pro	Leu	Ser	Ala	Arg	Thr	Tyr	Ser	Ile
		515					520						525		
Asp	Gly	Pro	Asn	Ala	Ser	Arg	Pro	Gln	Ser	Ala	Arg	Pro	Ser	Ile	Asn
		530				535					540				
Glu	Ile	Pro	Glu	Arg	Thr	Met	Ser	Val	Ser	Asp	Phe	Asn	Tyr	Ser	Arg
545					550					555					560
Thr	Ser	Pro	Ser	Lys	Arg	Pro	Asn	Ala	Arg	Val	Gly	Ser	Glu	His	Ser
			565						570					575	
Leu	Leu	Asp	Pro	Pro	Gly	Lys	Ser	Lys	Val	Pro	Arg	Asp	Trp	Arg	Glu
			580					585					590		
Gln	Val	Leu	Arg	His	Ile	Glu	Ala								
		595					600								

<210> 11080  
 <211> 2000  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> CDS  
 <222> (161).. (1234)

00629469.072800

<400> 11080

```

aaatgcgtca aacctcgaca aggtgctaac agacatcaaa gctgacaaaag accaagccaa 60
cgatgggtctt toctctgcat tgctgatctt gtacttggat tcagcaagga accttccgtc 120
agggaagaaa ataagcagca acccaaatcc tgttgtccag atgtcagttg ggcaacaaggc 180
ccaggagagc aagattcgat acaaaaacca tgaacctgtg tgggaggaaa acttcacttt 240
cttcattcac aatcccaagc gccaggacct tgaagttgag gtcagagacg agcagcacca 300
gtgttccctg gggaacctga aggtccccct cagccagctg ctcaccagtg aggacatgac 360
tgtgagccag cgcttccagc tcagtaactc gggtccaaac agcaccatca agatgaagat 420
tgccctgcgg gtgctccatc tcgaaaagcg agaaaggcct ccagaccacc aacactcagc 480
tcaagtcaaa cgtccctctg tgtccaaaga ggggaggaaa acatccatca aatctcatat 540
gtctgggtct ccaggccctg gtggcagcaa cacagctcca tccacaccag tcattggggg 600
cagtataag cctgggtatg aagaaaaggc ccagccccct gaggccggcc ctcaggggct 660
gcacgacctg ggcagaagct cctccagcct cctggcctcc ccaggccaca tctcagtcaa 720
ggagccgacc ccagcatcg cctcggacat ctcgtgccc atcgccacc aggagctgcg 780
gcaaaggctg aggcagctgg aaaacgggac gaccctggga cagtctccac tggggcagat 840
ccagctgacc atccggcaca gctcgcagag aaacaagctt atcgtggtcg tgcagcctg 900
cagaaacctc attgccttct ctgaagacgg ctctgacccc tatgtccgca tgtatttatt 960
accagacaag aggcggctcag gaaggaggaa aacacacgtg tcaaagaaaa cattaaatcc 1020
agtgtttgat caaagctttg atttcagtggt ttcggtacca gaagtgcaga ggagaacgct 1080
cgacgttgcc gtgaagaaca gtggcggctt cctgtccaaa gacaaagggc tccttggcaa 1140
agtattgggt gctctggcat ctgaagaact tgccaaaggc tggaccaggt ggtatgacct 1200
cacggaagat gggacgaggo ctcaggcogat gacatagccg cagcaggcag gaggcgtcct 1260
cttcagcgta gctctccacc tctaccogga acacaccctc tcacagacgt accaatgtta 1320
tttttataat ttcatggatt tagttataca taccttaata gttttataaa attgttgaca 1380
tttcaggcaa atttggccaa tattatcatt gaattttctg tgttggattt cctctaggat 1440
ttcgccagtt cctacaacgt gcagtagggc ggcggtagct cttgtgtctg tggactctgc 1500
tcagctgtgt ccgtaggagt cggatgtgtc tgtgctttat tatggccttg tttatatatc 1560
actgaggtat actatgccat gtaaatagac tattttttat aatctttaca tgctggttta 1620
aattcagaag gaaatagatc aaggaaatat atatattttc ttctaaaact tattaaattc 1680
gtgtgacaaa taatcatttt catcttggca gcaaaaagtt ctcagtgacc tattttgttg 1740
tgtttctttt tgaaaagaaa agctgaaata ttattaaatg ctagtatgtt tctgccatt 1800
atgaaagatg aaataaagta ttcaaaatat taacattttc ataaatataa ggatgtatta 1860
ttgagaagta agttgaaggg cttataagga aaaatgtttt ataactgagt aatatattaa 1920
gagaattgtc atggttcata aatcacatta tgctaactcg aaattttotta cataaaaaatg 1980
aagtgtctta tgtttatttt                                     2000

```

<210> 11081

<211> 358

<212> PRT

<213> Homo sapiens

<400> 11081

```

Met Ser Val Gly His Lys Ala Gln Glu Ser Lys Ile Arg Tyr Lys Thr
  1             5             10             15
Asn Glu Pro Val Trp Glu Glu Asn Phe Thr Phe Phe Ile His Asn Pro
          20             25             30

```

009220-69462960

-4532/13211-

Lys Arg Gln Asp Leu Glu Val Glu Val Arg Asp Glu Gln His Gln Cys  
35 40 45  
Ser Leu Gly Asn Leu Lys Val Pro Leu Ser Gln Leu Leu Thr Ser Glu  
50 55 60  
Asp Met Thr Val Ser Gln Arg Phe Gln Leu Ser Asn Ser Gly Pro Asn  
65 70 75 80  
Ser Thr Ile Lys Met Lys Ile Ala Leu Arg Val Leu His Leu Glu Lys  
85 90 95  
Arg Glu Arg Pro Pro Asp His Gln His Ser Ala Gln Val Lys Arg Pro  
100 105 110  
Ser Val Ser Lys Glu Gly Arg Lys Thr Ser Ile Lys Ser His Met Ser  
115 120 125  
Gly Ser Pro Gly Pro Gly Gly Ser Asn Thr Ala Pro Ser Thr Pro Val  
130 135 140  
Ile Gly Gly Ser Asp Lys Pro Gly Met Glu Glu Lys Ala Gln Pro Pro  
145 150 155 160  
Glu Ala Gly Pro Gln Gly Leu His Asp Leu Gly Arg Ser Ser Ser Ser  
165 170 175  
Leu Leu Ala Ser Pro Gly His Ile Ser Val Lys Glu Pro Thr Pro Ser  
180 185 190  
Ile Ala Ser Asp Ile Ser Leu Pro Ile Ala Thr Gln Glu Leu Arg Gln  
195 200 205  
Arg Leu Arg Gln Leu Glu Asn Gly Thr Thr Leu Gly Gln Ser Pro Leu  
210 215 220  
Gly Gln Ile Gln Leu Thr Ile Arg His Ser Ser Gln Arg Asn Lys Leu  
225 230 235 240  
Ile Val Val Val His Ala Cys Arg Asn Leu Ile Ala Phe Ser Glu Asp  
245 250 255  
Gly Ser Asp Pro Tyr Val Arg Met Tyr Leu Leu Pro Asp Lys Arg Arg  
260 265 270  
Ser Gly Arg Arg Lys Thr His Val Ser Lys Lys Thr Leu Asn Pro Val  
275 280 285  
Phe Asp Gln Ser Phe Asp Phe Ser Val Ser Leu Pro Glu Val Gln Arg  
290 295 300  
Arg Thr Leu Asp Val Ala Val Lys Asn Ser Gly Gly Phe Leu Ser Lys  
305 310 315 320  
Asp Lys Gly Leu Leu Gly Lys Val Leu Val Ala Leu Ala Ser Glu Glu  
325 330 335  
Leu Ala Lys Gly Trp Thr Gln Trp Tyr Asp Leu Thr Glu Asp Gly Thr  
340 345 350  
Arg Pro Gln Ala Met Thr  
355

<210> 11082

<211> 2178

<212> DNA

<213> Homo sapiens

005270" 59452360

<220>  
<221> CDS  
<222> (319).. (1572)

<400> 11082

tacgcgctgc	gggaccggca	ggggaaacgcc	atcgggggtca	cagcctgcga	catcgacggg	60
gacggccggg	aggagatcta	cttcctcaac	accaataatg	ccttctcggg	ggtggccacg	120
tacaccgaca	agttgttcaa	gttccgcaat	aaccgggtggg	aagacatcct	gagcgatgag	180
gtcaacgtgg	cccgtgggtg	ggccagcctc	tttgccggac	gctctgtggc	ctgtgtggac	240
agaaaagggt	ctggacgcta	ctctatctac	attgccaatt	acgcctacgg	taatgtgggc	300
cctgatgccc	tcattgaaat	ggaccctgag	gccagtgacc	tctcccgggg	cattctggcg	360
ctcagagatg	tggctgctga	ggctgggggtc	agcaaataata	cagggggccg	aggcgtcagc	420
gtggggcccca	tcctcagcag	cagtgcctcg	gatatcttct	gcgacaatga	gaatgggcct	480
aacttccttt	tccacaaccg	gggcgatggc	acctttgtgg	acgctgcggc	cagtgtctggt	540
gtggacgacc	cccaccagca	tgggcgaggt	gtcgccctgg	ctgacttcaa	ccgtgatggc	600
aaagtggaca	tcgtctatgg	caactggaat	ggccccacc	gcctctatct	gcaaattgagc	660
acccatggga	aggtccgctt	ccgggacatc	gcctcaccga	agttctccat	gccctcccct	720
gtccgcacgg	tcatcacccg	cgactttgac	aatgaccagg	agctggagat	cttcttcaac	780
aacattgcct	accgcagctc	ctcagccaac	cgccctcttc	gcgtcatccg	tagagagcac	840
ggagaccccc	tcatcgagga	gctcaatccc	ggcgacgcct	tggagcctga	gggcccggggc	900
acaggggggtg	tggtgaccga	cttcgaacga	gaocgggatgc	tggacctcat	cttgtcccct	960
ggagagtcca	tggctcagcc	gctgtccgtc	ttccggggga	atcagggctt	caacaacaac	1020
tggctgcgag	tggtgccacg	caccocgggtt	ggggcctttg	ccaggggagc	taaggtcgtg	1080
ctctacacca	agaagagtgg	ggcccacctg	aggatcatcg	acgggggctc	aggctacctg	1140
tgtgagatgg	agcccgtggc	acactttggc	ctgggggaagg	atgaagccag	cagtgtggag	1200
gtgacgtggc	cagatggcaa	gatgggtgag	cggaacgtgg	ccagcgggga	gatgaactca	1260
gtgctggaga	tcctctaccc	ccgggatgag	gacacacttc	aggacccagc	cccactggag	1320
acaccaatga	atgcatccag	ttcccattcg	tgtgccctcg	agacaagccc	gtatgtgtca	1380
acacctatgg	aagctacagg	tgccggacca	acaagaagtg	cagtcggggc	tacgagccca	1440
acgaggatgg	cacagcctgc	gtgggggactc	tggccagtc	accggggccc	cgccccacca	1500
ccccaccgc	tgctgtgccc	actgccgctg	ctgctgccgc	tgctggagct	gccactgctg	1560
caccggctcct	cgtagatgga	gatctcaatc	tggggctcgg	ggttaaggag	agctgcgagc	1620
ccagctgctg	agcaggggtg	ggacatgaac	cagcggatgg	agtccagcag	gggagtggga	1680
aagtgggctt	gtgctgctgc	ctagacagta	gggatgtaaa	ggcctgggag	ctagaccctc	1740
cccaagccca	tccatgcaca	ttacttagct	aacaattagg	gagactcgta	aggccaggcc	1800
ctgtgctggg	cacatagctg	tgatcacagc	agacagggtc	gctgccctga	tggcgcttac	1860
attccagtgg	gtctaattgac	catatcttag	gacacagatg	tgcccaggga	ggtggtgtca	1920
ctgcacagga	agtatgagga	ctttagtgtc	ctgagttcaa	atcctgattc	aggaactcac	1980
aaagctatgt	gaccttacac	cagtcactta	acttggttagc	catccattat	cgcactctgca	2040
aaatgggggat	taagaataga	atcttggggg	tagtgtggag	attagattaa	atgtatgtaa	2100
gacacttggc	acaaaacctg	gcacatagta	aaggctcaat	aaaaacaagt	gcctctcact	2160
gggctttgtc	aacacgtg					2178

<210> 11083  
<211> 418  
<212> PRT

000220" 69462960



-4535/13211-

	355		360		365										
Val	Gly	Ala	Thr	Ser	Pro	Thr	Arg	Met	Ala	Gln	Pro	Ala	Trp	Gly	Leu
	370					375					380				
Ser	Ala	Ser	His	Arg	Ala	Pro	Ala	Pro	Pro	Pro	Pro	Pro	Leu	Leu	Leu
385					390					395					400
Pro	Leu	Pro	Leu	Leu	Leu	Pro	Leu	Leu	Glu	Leu	Pro	Leu	Leu	His	Arg
				405					410						415
Ser	Ser														

<210> 11084  
<211> 1670  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (38).. (1366)

<400> 11084  
tatccctgtt cagtactgcg cccagcccac caatggcatg gtgtatttcc gggccttctc 60  
cagcctgaac acactccccg aggagctgag gccctatgtg cccccccttct gcagcatcct 120  
caccaagctg ggctgcggcc ttcttgacta cggggagcag gctcagcaga tagaattgaa 180  
gaccggaggg atgagtgcct ctccccacgt gctccccgac gactcacaca tggacaccta 240  
cgagcaggggt gtgcttttct cctctctctg cctggatcga aacctgccag acatgatgca 300  
gotatggagt gaaatattta acaaccctg ctttgaagaa gaggagcact tcaaggtgct 360  
ggtgaagatg accgcccagg agctcgccaa tggaattcct gactctgggc acctgtacgc 420  
atccatcagg gcaggccgga ccctcacgcc cgcaggggac ctgcaggaga ccttcagcgg 480  
gatggatcag gtgcggctga tgaagaggat tgcagaaatg acagatatca aacccatcct 540  
gaggaagctc ccgcgtatca agaaacactt gttaaatggg gataatatga ggtgttcagt 600  
gaatgcgact cctcagcaga tgctcagac agaaaaagcg gtcgaagact tccttagaag 660  
catcggtcgg agtaaaaagg aacggaggcc tgtgcgcccc cacacggctc agaaacctgt 720  
gcccagcagc tctggtggag atgcccacgt tcccctatggc tcccaggcca ttaggaagct 780  
ggtcatggaa cccaccttca agccctggca gatgaagact cacttcctga tgcccttccc 840  
ggtgaattac gtgggtgaat gcatccgaac tgtcccctac acggaccag atcatgccag 900  
tcttaaaatc cttgcacgtt tgatgactgc caaattcttg catacagaaa ttcgagaaaa 960  
aggcgggtgct tatggtggag gcgcaaaact cagccacaat gggattttca ccttttactc 1020  
ttacagggac ccaaatacaa tagagacgct ccagtctttt gggaaggctg tcgactgggc 1080  
taagtctgga aaattcacac agcaagacat cgacgaagcc aaactttctg tcttctcaac 1140  
cgtagatgct cctgtcgtc cttcagacaa aggaatggac cacttcttgt acggcctctc 1200  
ggatgagatg aagcaggccc acagagagca gctcttttgt gtcagccacg acaagctcct 1260  
ggccgtgagc gataggtacc tcggcactgg gaagagcaca cacggcctgg ccatcctcgg 1320  
acccgagAAC ccgaaaattg ccaaggaccc atcctggatc atccgatgag cagccgtggc 1380  
gctcgactgc acaggagccc gagacaatac acctccaagc tgaatatgaa aagtcagaaa 1440  
tgctactgct ttttccaaga atattatgtc attgagtgtc gccaaagccc ttgactggcg 1500  
agtcaaaaac tcagatctat ctttaagagt accaggaaga ggttcattga aataatcatg 1560  
catgaagcgc caaagatgca ccatgtagaa ttttacttt gtactggcag gtcgtttta 1620

000220 09062960

cctgattcta gaatatTTaa gaatctaaaa ataaagggca actctgactt

1670

<210> 11085

<211> 443

<212> PRT

<213> Homo sapiens

<400> 11085

Met	Val	Tyr	Phe	Arg	Ala	Phe	Ser	Ser	Leu	Asn	Thr	Leu	Pro	Glu	Glu	1	5	10	15
Leu	Arg	Pro	Tyr	Val	Pro	Pro	Phe	Cys	Ser	Ile	Leu	Thr	Lys	Leu	Gly	20	25	30	
Cys	Gly	Leu	Leu	Asp	Tyr	Arg	Glu	Gln	Ala	Gln	Gln	Ile	Glu	Leu	Lys	35	40	45	
Thr	Gly	Gly	Met	Ser	Ala	Ser	Pro	His	Val	Leu	Pro	Asp	Asp	Ser	His	50	55	60	
Met	Asp	Thr	Tyr	Glu	Gln	Gly	Val	Leu	Phe	Ser	Ser	Leu	Cys	Leu	Asp	65	70	75	80
Arg	Asn	Leu	Pro	Asp	Met	Met	Gln	Leu	Trp	Ser	Glu	Ile	Phe	Asn	Asn	85	90	95	
Pro	Cys	Phe	Glu	Glu	Glu	Glu	His	Phe	Lys	Val	Leu	Val	Lys	Met	Thr	100	105	110	
Ala	Gln	Glu	Leu	Ala	Asn	Gly	Ile	Pro	Asp	Ser	Gly	His	Leu	Tyr	Ala	115	120	125	
Ser	Ile	Arg	Ala	Gly	Arg	Thr	Leu	Thr	Pro	Ala	Gly	Asp	Leu	Gln	Glu	130	135	140	
Thr	Phe	Ser	Gly	Met	Asp	Gln	Val	Arg	Leu	Met	Lys	Arg	Ile	Ala	Glu	145	150	155	160
Met	Thr	Asp	Ile	Lys	Pro	Ile	Leu	Arg	Lys	Leu	Pro	Arg	Ile	Lys	Lys	165	170	175	
His	Leu	Leu	Asn	Gly	Asp	Asn	Met	Arg	Cys	Ser	Val	Asn	Ala	Thr	Pro	180	185	190	
Gln	Gln	Met	Pro	Gln	Thr	Glu	Lys	Ala	Val	Glu	Asp	Phe	Leu	Arg	Ser	195	200	205	
Ile	Gly	Arg	Ser	Lys	Lys	Glu	Arg	Arg	Pro	Val	Arg	Pro	His	Thr	Val	210	215	220	
Glu	Lys	Pro	Val	Pro	Ser	Ser	Ser	Gly	Gly	Asp	Ala	His	Val	Pro	His	225	230	235	240
Gly	Ser	Gln	Val	Ile	Arg	Lys	Leu	Val	Met	Glu	Pro	Thr	Phe	Lys	Pro	245	250	255	
Trp	Gln	Met	Lys	Thr	His	Phe	Leu	Met	Pro	Phe	Pro	Val	Asn	Tyr	Val	260	265	270	
Gly	Glu	Cys	Ile	Arg	Thr	Val	Pro	Tyr	Thr	Asp	Pro	Asp	His	Ala	Ser	275	280	285	
Leu	Lys	Ile	Leu	Ala	Arg	Leu	Met	Thr	Ala	Lys	Phe	Leu	His	Thr	Glu	290	295	300	
Ile	Arg	Glu	Lys	Gly	Gly	Ala	Tyr	Gly	Gly	Gly	Ala	Lys	Leu	Ser	His				

000220.69462960





-4538/13211-

```
agtgatgggg aggccctggg cggcaaccgg atggtggcag ggttccagga cgatgtggac 1200
ctcgaagacc agccacgtgg gaggcccccg ctgcctgcag gccccgtccc cagtcaagac 1260
atcactcttt cgagtgagga ggaagcagaa gtggcagctc ccacaaaagg ccctgcccc 1320
gctccccagc agtgctcaga gccagagacc aagtggtcct ccataccagc ttcgaagcca 1380
cggaggggga cagctccac gaggaccgca gcacccccct ggccaggcgg tgtctctgtt 1440
cgcacaggtc cggagaagcg cagcagcacc agggccccctg ctgagatgga gccggggaag 1500
ggtgagcagg cctcctcgtc ggagagtgac cccgagggac ccattgctgc acaaatgctg 1560
tccttcgtca tggatgacct cgactttgag agcgagggat cagacacaca gcgcagggcg 1620
gatgactttc ccgtgcgaga tgacccctcc gatgtgactg acgaggatga gggccctgcc 1680
gagccgcccc cccccccaa gctccctctc cccgccttca gactgaagaa tgactcggac 1740
ctcttcgggc tggggctgga ggaggccgga cccaaggaga gcagtgagga aggtaaggag 1800
ggcaaaacc cctctaagga gaag                                     1824
```

<210> 11087  
<211> 539  
<212> PRT  
<213> Homo sapiens

<400> 11087

Met	Glu	Asn	Asp	Pro	Gln	Glu	Ala	Glu	Ser	Glu	Met	Ala	Leu	Asp	Ala
1				5				10					15		
Glu	Phe	Leu	Asp	Val	Tyr	Lys	Asn	Cys	Asn	Gly	Val	Val	Met	Met	Phe
			20					25					30		
Asp	Ile	Thr	Lys	Gln	Trp	Thr	Phe	Asn	Tyr	Ile	Leu	Arg	Glu	Leu	Pro
			35				40					45			
Lys	Val	Pro	Thr	His	Val	Pro	Val	Cys	Val	Leu	Gly	Asn	Tyr	Arg	Asp
			50			55					60				
Met	Gly	Glu	His	Arg	Val	Ile	Leu	Pro	Asp	Asp	Val	Arg	Asp	Phe	Ile
65					70					75				80	
Asp	Asn	Leu	Asp	Arg	Pro	Pro	Gly	Ser	Ser	Tyr	Phe	Arg	Tyr	Ala	Glu
				85					90					95	
Ser	Ser	Met	Lys	Asn	Ser	Phe	Gly	Leu	Lys	Tyr	Leu	His	Lys	Phe	Phe
			100				105					110			
Asn	Ile	Pro	Ser	Leu	Gln	Leu	Gln	Arg	Glu	Thr	Leu	Leu	Arg	Gln	Leu
		115				120						125			
Glu	Thr	Asn	Gln	Leu	Asp	Met	Asp	Ala	Thr	Leu	Glu	Glu	Leu	Ser	Val
	130					135					140				
Gln	Gln	Glu	Thr	Glu	Asp	Gln	Asn	Tyr	Gly	Ile	Phe	Leu	Glu	Met	Met
145					150					155				160	
Glu	Ala	Arg	Ser	Arg	Gly	His	Ala	Ser	Pro	Leu	Ala	Ala	Asn	Gly	Gln
				165					170					175	
Ser	Pro	Ser	Pro	Gly	Ser	Gln	Ser	Pro	Val	Val	Pro	Ala	Gly	Ala	Val
			180					185					190		
Ser	Thr	Gly	Ser	Ser	Ser	Pro	Gly	Thr	Pro	Gln	Pro	Ala	Pro	Gln	Leu
	195					200						205			
Pro	Leu	Asn	Ala	Ala	Pro	Pro	Ser	Ser	Val	Pro	Pro	Val	Pro	Pro	Ser
	210					215						220			

09629469.072300

Glu Ala Leu Pro Pro Pro Ala Cys Pro Ser Ala Pro Ala Pro Arg Arg  
 225 230 235 240  
 Ser Ile Ile Ser Arg Leu Phe Gly Thr Ser Pro Ala Thr Glu Ala Ala  
 245 250 255  
 Pro Pro Pro Pro Glu Pro Val Pro Ala Ala Gln Gly Pro Ala Thr Val  
 260 265 270  
 Gln Ser Val Glu Asp Phe Val Pro Asp Asp Arg Leu Asp Arg Ser Phe  
 275 280 285  
 Leu Glu Asp Thr Thr Pro Ala Arg Asp Glu Lys Lys Val Gly Ala Lys  
 290 295 300  
 Ala Ala Gln Gln Asp Ser Asp Ser Asp Gly Glu Ala Leu Gly Gly Asn  
 305 310 315 320  
 Pro Met Val Ala Gly Phe Gln Asp Asp Val Asp Leu Glu Asp Gln Pro  
 325 330 335  
 Arg Gly Ser Pro Pro Leu Pro Ala Gly Pro Val Pro Ser Gln Asp Ile  
 340 345 350  
 Thr Leu Ser Ser Glu Glu Glu Ala Glu Val Ala Ala Pro Thr Lys Gly  
 355 360 365  
 Pro Ala Pro Ala Pro Gln Gln Cys Ser Glu Pro Glu Thr Lys Trp Ser  
 370 375 380  
 Ser Ile Pro Ala Ser Lys Pro Arg Arg Gly Thr Ala Pro Thr Arg Thr  
 385 390 395 400  
 Ala Ala Pro Pro Trp Pro Gly Gly Val Ser Val Arg Thr Gly Pro Glu  
 405 410 415  
 Lys Arg Ser Ser Thr Arg Pro Pro Ala Glu Met Glu Pro Gly Lys Gly  
 420 425 430  
 Glu Gln Ala Ser Ser Ser Glu Ser Asp Pro Glu Gly Pro Ile Ala Ala  
 435 440 445  
 Gln Met Leu Ser Phe Val Met Asp Asp Pro Asp Phe Glu Ser Glu Gly  
 450 455 460  
 Ser Asp Thr Gln Arg Arg Ala Asp Asp Phe Pro Val Arg Asp Asp Pro  
 465 470 475 480  
 Ser Asp Val Thr Asp Glu Asp Glu Gly Pro Ala Glu Pro Pro Pro Pro  
 485 490 495  
 Pro Lys Leu Pro Leu Pro Ala Phe Arg Leu Lys Asn Asp Ser Asp Leu  
 500 505 510  
 Phe Gly Leu Gly Leu Glu Glu Ala Gly Pro Lys Glu Ser Ser Glu Glu  
 515 520 525  
 Gly Lys Glu Gly Lys Thr Pro Ser Lys Glu Lys  
 530 535

<210> 11088

<211> 1865

<212> DNA

<213> Homo sapiens

<220>

09629469.072800

<221> CDS  
<222> (45).. (1241)

<400> 11088

```

gcttgaggcg taggggggtgg cgctctccgt toggcgggogc tcccatggcg cacattacca 60
ttaaccagta cctgcagcag gtgtacgaag ccatcgacag cagagatgga gcatcttgtg 120
cagagttggt gtcttttaaa catcctcatg ttgcaaaccc acgacttcaa atggcctctc 180
cagaggagaa gtgtcaacaa gtcttggaac ccccttatga tgaaatgttt gcagctcatt 240
taagggtgcac ttatgcagtg gggaatcatg acttcataga ggcatacaag tgccagaccg 300
tgatagtcca atcattcttg cgagcattcc agggccacaa agaagaaaaac tgggctctgc 360
ctgtcatgta tgcagttagc cttgaccttc gagtgtttgc caataatgca gatcaacagt 420
tggtaaaagaa aggaaaaaagc aaagttagggg acatgtttgga aaaagcagca gaggtaactga 480
tgagctgttt ccgggtctgt gccagcgaca ccogtgcctgg tatagaggac tctaagaagt 540
ggggcatgct gtttctgggt aaccagctgt ttaaaatcta cttcaagatc aacaaactcc 600
atttatgtaa acccctaatt agagcaattg acagctcaaa cctgaaagac gattacagca 660
ctgcacagag agtaacatac aaatactacg ttggacgcaa ggotatgttt gacagcgatt 720
ttaagcaagc tgaggagtac ctgtcatttg cctttgagca ttgtcaccgt tctagtccaga 780
agaacaaaag gatgattctg atctatttgc ttccagtaaa aatgctattg ggtcacatgc 840
ccaactgtgga gctcctgaaa aagtatcacc tgatgcagtt tgcggaaagta accagagctg 900
tgagcgaggg caacctgctg ctgctgcacg aggcgctggc gaagcacgag gccttcttca 960
ttcgcctcgg aatcttcctc atcctggaga agctgaagat catcacctac aggaacctct 1020
ttaagaaaagt gtatttgtaa ctgaaaacac accagctgtc totggatgct tttctggttg 1080
ccttgaagtt catgcagggt gaggacgtgg acattgacga agttcagtggt attctggcta 1140
acttgatata catgggacac gtcaaaggct acatatcgca tcagcatcag aagctgggtg 1200
tcagcaagca gaaccattt cctcccctgt ccacgggtgtg ttgaaagtac acggagcccc 1260
gaggacgggt gagcagttgt ttctttccac ttgggttgtg ctgatgagac cgggtccggtg 1320
ctgcaacaag gctccctgaa gccggaactc ttggaggcgc ttttcccagg gatgctgagg 1380
ctgagatttt cagcacaccc gagttaatct ccttcatttg taactaatit cagcctgatg 1440
aaaacctgga attccttttt cacagactcg gctggttctg gagtctttgt gagacttctt 1500
tgaaggaggc tttgcgtgaa ggctgctcgg ctcaactttc ctaagtgtgg ttccctgaagg 1560
ctgtctttgt aactttttgt agttctttgt gtaaaaagcg tattctgaat ttatacacat 1620
ggcatgttct tcattatata ttccaggata catctatttt tatatatata atttgaatgt 1680
gttatcaaaa tgcttggtta acttaaggca cttttttaaa agcagaattt aatttgattt 1740
aaattttcca gattttatag cttgcctgta tggatgctcc tcaatttatg atggggttac 1800
atcccaataa acttatttta tttgcctttg ctttgttggg taaaaaaaaa tttcttttaa 1860
aaaac
1865

```

<210> 11089  
<211> 399  
<212> PRT  
<213> Homo sapiens

<400> 11089

```

Met Ala His Ile Thr Ile Asn Gln Tyr Leu Gln Gln Val Tyr Glu Ala
 1           5           10          15
Ile Asp Ser Arg Asp Gly Ala Ser Cys Ala Glu Leu Val Ser Phe Lys
          20          25          30

```

His	Pro	His	Val	Ala	Asn	Pro	Arg	Leu	Gln	Met	Ala	Ser	Pro	Glu	Glu
		35					40					45			
Lys	Cys	Gln	Gln	Val	Leu	Glu	Pro	Pro	Tyr	Asp	Glu	Met	Phe	Ala	Ala
	50					55					60				
His	Leu	Arg	Cys	Thr	Tyr	Ala	Val	Gly	Asn	His	Asp	Phe	Ile	Glu	Ala
65					70					75					80
Tyr	Lys	Cys	Gln	Thr	Val	Ile	Val	Gln	Ser	Phe	Leu	Arg	Ala	Phe	Gln
				85					90					95	
Ala	His	Lys	Glu	Asn	Trp	Ala	Leu	Pro	Val	Met	Tyr	Ala	Val	Ala	
			100				105					110			
Leu	Asp	Leu	Arg	Val	Phe	Ala	Asn	Asn	Ala	Asp	Gln	Gln	Leu	Val	Lys
		115					120					125			
Lys	Gly	Lys	Ser	Lys	Val	Gly	Asp	Met	Leu	Glu	Lys	Ala	Ala	Glu	Leu
	130					135					140				
Leu	Met	Ser	Cys	Phe	Arg	Val	Cys	Ala	Ser	Asp	Thr	Arg	Ala	Gly	Ile
145					150					155					160
Glu	Asp	Ser	Lys	Lys	Trp	Gly	Met	Leu	Phe	Leu	Val	Asn	Gln	Leu	Phe
				165					170					175	
Lys	Ile	Tyr	Phe	Lys	Ile	Asn	Lys	Leu	His	Leu	Cys	Lys	Pro	Leu	Ile
			180				185						190		
Arg	Ala	Ile	Asp	Ser	Ser	Asn	Leu	Lys	Asp	Asp	Tyr	Ser	Thr	Ala	Gln
		195					200					205			
Arg	Val	Thr	Tyr	Lys	Tyr	Tyr	Val	Gly	Arg	Lys	Ala	Met	Phe	Asp	Ser
	210					215					220				
Asp	Phe	Lys	Gln	Ala	Glu	Glu	Tyr	Leu	Ser	Phe	Ala	Phe	Glu	His	Cys
225					230					235					240
His	Arg	Ser	Ser	Gln	Lys	Asn	Lys	Arg	Met	Ile	Leu	Ile	Tyr	Leu	Leu
				245					250					255	
Pro	Val	Lys	Met	Leu	Leu	Gly	His	Met	Pro	Thr	Val	Glu	Leu	Leu	Lys
			260					265					270		
Lys	Tyr	His	Leu	Met	Gln	Phe	Ala	Glu	Val	Thr	Arg	Ala	Val	Ser	Glu
		275					280					285			
Gly	Asn	Leu	Leu	Leu	Leu	His	Glu	Ala	Leu	Ala	Lys	His	Glu	Ala	Phe
	290					295					300				
Phe	Ile	Arg	Cys	Gly	Ile	Phe	Leu	Ile	Leu	Glu	Lys	Leu	Lys	Ile	Ile
305					310					315					320
Thr	Tyr	Arg	Asn	Leu	Phe	Lys	Lys	Val	Tyr	Leu	Leu	Leu	Lys	Thr	His
			325						330					335	
Gln	Leu	Ser	Leu	Asp	Ala	Phe	Leu	Val	Ala	Leu	Lys	Phe	Met	Gln	Val
			340					345					350		
Glu	Asp	Val	Asp	Ile	Asp	Glu	Val	Gln	Cys	Ile	Leu	Ala	Asn	Leu	Ile
		355					360					365			
Tyr	Met	Gly	His	Val	Lys	Gly	Tyr	Ile	Ser	His	Gln	His	Gln	Lys	Leu
	370					375					380				
Val	Val	Ser	Lys	Gln	Asn	Pro	Phe	Pro	Pro	Leu	Ser	Thr	Val	Cys	
385					390					395					

09629469.072300

<210> 11090  
 <211> 2653  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (420).. (2381)

<400> 11090

```

gcaagcccag catcagcctc tcagcccccg acatcctgcc tctacactgc accatccgcc 60
ggcaaccgct cccggacagc ggccaggccg cggggagggt ggtcctggag cccatccccg 120
gggcgcacat ctccgtcaac ttctccgagg tggggcacag gaccgtggtg ctgcaccacg 180
gggacctgct ctccctgggg ctctactacc tgctgtatt caaggacccc gcgcaggccc 240
agcccctgcc cgcccggggc ttggcgcgcc tccgggctgt gccgcagagc tgccggctgt 300
gcggggccgc gctcggggcc cggggagccg cctcccctac tcaggccgcc ctgccccggc 360
gccagcagct gctcctggag tttagacccc acctggagga cacgtgctg cagaggatca 420
tgacgttgat cgagccgggg ggcgacgacc acaagctgac ccccgccctc ctccctgtgc 480
tctgcatcca gcactcggcc acccaacttc agccggggcac attcgggcag ctccctgtca 540
agatagccag gctgatccgc gagactgtct gggagaaaaa caaagaacta gcagagaagc 600
aggcgcaact ccaggagccc atctcgctgg ccagctgcgc catggctgat ctggttccag 660
acttgacgcc cattcttttc tggatgtcta actccatcga gctcctgtac tttatccagc 720
agaaatgcc actctacatg cagagcatgg aggagcagct ggacatcaca ggctcgaagg 780
aatcgctgtt ctctgcacg ctgacggcca gcgaggaggc catggcgggt ctggaggagg 840
tggtgctgta cgccttcag cagtgcgtct actatgtctc caagtccctg tacatctgcc 900
tccgggcaact cctggagtgc ccgccattcc agacggagcg ccgtgagagc tggctcctcg 960
ccccgaact gcccgaggag ctgcgcgcgc tgggtgtctgt gtaccaggca gccctggacc 1020
tcctgcggca gctgcagggt caccocgagg tggcctcgca gatgctcgcc tacctcttct 1080
tcttctccgg gacactgctt ctcaaccagc tcctcgacag gggccccctc ctgagctgct 1140
tccactggcc cagaggtgtc caggcctgcg ccgcctgca gcagctcctg gagtggatgc 1200
ggagcgccgg cttcggggcg gctggagagc acttcttcca gaagctctcc tgcacctca 1260
acctgctggc cacaccagc gccagctca tcagatgag ctggacagcc ctgcccggctg 1320
cgttccccgc actgagccca gcacagctgc accgctgct gactcactac cagctggcct 1380
cggccatggg ccccatgagc acctgggagc caggggcccc ggacagcccc gaggccttca 1440
ggtcagagga tgttctggag tcctacgaaa accccccacc catcgtcctg cccagcgacg 1500
gcttccaggt ggacttggaa gccaaactgcc tggacgacag catctaccag cacctgctct 1560
acgtccgcca ctttctgtgg ggtctgcgga gcagagccag ccccggcagc cctggcaggc 1620
ctggcagtgg ggctcccgag ccagtgtgcc ccgagggtat gcaccacgtg gtccttgacg 1680
ggcacctgga ggccccgagc tgccccctgg ctcccaggga ccctggccca gcagccccgg 1740
aagtggcccc ggagcgtact ctcccttga ggggggctcc ctgggcacag gccccccctg 1800
gaaggcaacc cggccgtggg ggctcccgag ctggcccccc gcacacggac tctcctgct 1860
tgctcacgcc tccagcact ccacttggcc ctgagcctgg ggaccccgac tggccagagt 1920
ccggcggccc ctgttgaaaa gcgtcccag agaggcagag gaacggactc agcggcctcc 1980
ggggtgcagc tccggaagga gactctgcag cccttgcgga ggagtccct ccagccccgt 2040
ccagccgcag ctccagcacc gaggacttct gctacgtctt cacggtggag ctggaacgag 2100
gccccctcgg gctggggatg ggctgatcg acgggatgca cagcacctg ggcgcccccg 2160
ggctctacat ccagacctg ctcccgggca gcccgcagc ggccgacggg cgcctgtcgc 2220
tgggggaccc tatcctggag gtgaatggca gcagcctcct gggccttggc tacctgagag 2280
    
```

002240 69462960

ctgtggacct gatccgtcat ggcggaaga agatgcggtt cctggtcgcg aagtcgcgacg 2340  
 tggaacagc caagaagatc catttcogca cgtccccctct ctaggggggc tgcgaggaca 2400  
 cccccacagg cccggcaccg ggtccacact ggtgacactg ggcttcctcc cgccttcgtc 2460  
 cctgttttgt aactgaccaa gttgggtccc ggtggggag cctcaccctg gggacatgcc 2520  
 tgttgataac atgcatctca gtgtaggttc tatttatatg gcagatgacg tgaaattgtg 2580  
 atgtttgta cagagctttt atgtttaaag acttcaatgg agaagtacgg ttcaataaac 2640  
 tatttttccc gtt 2653

<210> 11091

<211> 654

<212> PRT

<213> Homo sapiens

<400> 11091

Met	Thr	Leu	Ile	Glu	Pro	Gly	Gly	Asp	Asp	His	Lys	Leu	Thr	Pro	Ala
1				5				10						15	
Phe	Leu	Leu	Cys	Leu	Cys	Ile	Gln	His	Ser	Ala	Thr	His	Phe	Gln	Pro
		20					25						30		
Gly	Thr	Phe	Gly	Gln	Leu	Leu	Leu	Lys	Ile	Ala	Arg	Leu	Ile	Arg	Glu
		35				40						45			
Thr	Val	Trp	Glu	Lys	Thr	Lys	Glu	Leu	Ala	Glu	Lys	Gln	Ala	Gln	Leu
	50					55					60				
Gln	Glu	Pro	Ile	Ser	Leu	Ala	Ser	Cys	Ala	Met	Ala	Asp	Leu	Val	Pro
65					70					75				80	
Asp	Leu	Gln	Pro	Ile	Leu	Phe	Trp	Met	Ser	Asn	Ser	Ile	Glu	Leu	Leu
				85					90					95	
Tyr	Phe	Ile	Gln	Gln	Lys	Cys	Pro	Leu	Tyr	Met	Gln	Ser	Met	Glu	Glu
			100					105					110		
Gln	Leu	Asp	Ile	Thr	Gly	Ser	Lys	Glu	Ser	Leu	Phe	Ser	Cys	Thr	Leu
		115					120					125			
Thr	Ala	Ser	Glu	Glu	Ala	Met	Ala	Val	Leu	Glu	Glu	Val	Val	Leu	Tyr
	130					135						140			
Ala	Phe	Gln	Gln	Cys	Val	Tyr	Tyr	Val	Ser	Lys	Ser	Leu	Tyr	Ile	Cys
145					150					155					160
Leu	Pro	Ala	Leu	Leu	Glu	Cys	Pro	Pro	Phe	Gln	Thr	Glu	Arg	Arg	Glu
				165					170					175	
Ser	Trp	Ser	Ser	Ala	Pro	Glu	Leu	Pro	Glu	Glu	Leu	Arg	Arg	Val	Val
		180						185						190	
Ser	Val	Tyr	Gln	Ala	Ala	Leu	Asp	Leu	Leu	Arg	Gln	Leu	Gln	Val	His
		195					200					205			
Pro	Glu	Val	Ala	Ser	Gln	Met	Leu	Ala	Tyr	Leu	Phe	Phe	Phe	Ser	Gly
	210					215						220			
Thr	Leu	Leu	Leu	Asn	Gln	Leu	Leu	Asp	Arg	Gly	Pro	Ser	Leu	Ser	Cys
225					230					235					240
Phe	His	Trp	Pro	Arg	Gly	Val	Gln	Ala	Cys	Ala	Arg	Leu	Gln	Gln	Leu
				245					250					255	
Leu	Glu	Trp	Met	Arg	Ser	Ala	Gly	Phe	Gly	Ala	Ala	Gly	Glu	His	Phe

009270.69462960



645

650

<210> 11092  
<211> 3023  
<212> DNA  
<213> Homo sapiens

<400> 11092

tccaggctct	gctcagtgga	cgccaggcaa	aggggctgac	ctcaggggcgc	tggttcctac	60
gccagggctg	gctgttagtg	gtgcctcccc	atggggagcc	tggggccgc	atgttcttcc	120
tcttcactga	tgtgctcctc	atggccaagc	ctcggcctcc	actgcacctg	ctgcggagtg	180
gcacctttgc	ctgcaaggcc	ctctacccca	tggcccagtg	tcctctcagc	agggtctttg	240
gccactcagg	aggcccttgt	ggtgggttgc	tcagtctgtc	cttccctcat	gagaagctac	300
tgtttatgtc	cacagaccag	gaggagctgt	cacgctggta	ccacagtctg	acttgggcta	360
tcagcagcca	gaaaaactag	aggaatctta	tagattccag	aactcaggat	acctcaggga	420
gaggtcacag	ccaagagtac	aaaggaatct	tcagtactga	acaaaacaga	acccttcattg	480
atttgacaaa	ggtcactttc	tgtttgcctg	gaccaagcta	ctccagatca	tctgactaac	540
tcttaaaaaat	cacggccagg	cacagtggct	catgcctgta	atcccagcac	tttgggaagc	600
agaggtggca	ggatcattcc	agcccaggag	ttcaagacca	gcctgggcaa	cacagtgaagt	660
gagaccctgt	ctctatttta	gaaaaaataa	ttaagaaatt	ttattaaaaa	agaagaatca	720
ggaaaccaag	tccaacccaa	ctaaacctca	aatgaaccag	cccctaacac	agatgagggg	780
atttgggact	gataagctct	gtgctgtgtc	catggcccgt	catttatcaa	ggctgcagct	840
ttgtaaatgt	ggctatTTTT	atgtttgtga	tagtttctat	catttatTTT	tccactggat	900
ttaagtaaag	TTTTTTTTct	TTTTTTTTgg	aaagaccctt	ctgtctcagt	tttgctatga	960
gaaaagggat	TTTTggggcc	tgaacgcggg	catgctgggtg	gcctcaggaa	tacgaggaaa	1020
agagctggag	ctccctctat	cttctctgct	gtcacactgg	aaggcagcct	ctttttgtcc	1080
taataaggac	agctcttcaa	gaaggcccag	ttgtccttag	gcacctagta	tgggtgtgta	1140
caaccaacta	ggatcgaaaa	aacacacagg	agcactccat	catgaaaaca	gactttgttt	1200
tagtcgacct	tcagctgtcg	tccctccttc	ccagccaagg	ctgtgactgg	ggccctttgc	1260
cacagcctgg	ctgcaccttc	tccgtagtcc	ccgccccacc	tcccaggaag	tagctagggt	1320
ccatgtctct	gtgctccagt	ttgtgggctc	ctcccaggcc	tgactgtcac	caacctcctc	1380
ctcgtcctcc	tttaaacaga	agtcctcagg	aagaggtctg	ctggcctctg	tgtggggaga	1440
gatcaggaat	gttccagttt	caaagacttt	gtctccacct	ccagcagact	cgcctcccga	1500
gccttcacct	ggttctgaag	cctccatata	cttgtccggc	ttgctatctt	gcagcagctc	1560
gtggatgggtc	catagcttca	tgttcagaag	ctcctgctgg	gctccagcca	gagtagtcac	1620
actgaagaaa	tgtccactca	gtggctccca	acctatgtcc	ccattcctcc	ctcctgccac	1680
aaattcccca	aaaattcaca	gaatcattgc	tctcctcacc	gctcaaaaag	ggggtccagc	1740
tgggccatca	ggttgttcag	gtgctgctct	gtctgggcca	gctgttgtgt	caactggggc	1800
agctgttgct	ctggggataa	gggaaaaaag	ggggcagaag	tggttatgta	tcttctgctg	1860
tcccctaaac	tccccgacc	cagcacagac	ttctgctaaa	cccacctgac	tgcagtggct	1920
gctgcttgct	tgcctcctcg	tggagaaccg	cagtttcatc	tttcccctgt	tgtggaagaa	1980
ggaaagggca	gtactgaagc	aacaaggttc	tgtccatca	cctcagtctc	cagagccagc	2040
caagagagag	tgcaatttga	gatggagaca	gtgattgggt	ttttacctca	gagaatcaca	2100
atcctagtct	atctagctcc	tcaccagca	tatgaagcga	cgtcctatgt	cccacacatg	2160
gtcagtttgc	tgaaacacct	ccaggaatga	gcaactccct	cgggtttgaa	aaaagctctg	2220
gtggctgagt	gctgtggctc	acacctgtaa	tcccagcact	tggggaggcc	aaggtgggtg	2280
gatcacctga	ggtcaggagt	ttgagaccag	cctggccaac	acggtgaaac	cctgtctcta	2340

09629469.072800



ttaaaaaatac aaaaatttagc cgggcgtggt ggcaggtgcc tgtaatccca gttacttgag 2400  
aggctgagggc aggagaatcg cttgaacctg ggagccagag gttgcagtga gccgagattg 2460  
cgccgctgca ctccagcctg ggtgacagag cgagactcca tctcgaaaaa aacaaaaact 2520  
ttggttgtta gacagttcac gcacaaaagcc aaaatttgtc ctttatgtat cttctttcca 2580  
tagtgcttac tggagccttc caaaataatg tctcctcaac gtgacagccc ctcaggaatt 2640  
tgaaggcaat ggtcacaccc tcacccgctt tctgagttt tttctggttt attaacgtca 2700  
gtctttacag tcagtgtcctc ttgacgggtg ttttctctgg ttgtttcctg aacacgtagt 2760  
gctcttaaag cagtgcctcg aggggaatac aattctccag gggcattctg attggcaggt 2820  
gaagcacagt gccatgttcc cagcactgat ttgggaagtg gcttgtcaca tcccacagt 2880  
aactcagtca actggaatgc ctaactctct ttcataagac ctctgtctac attatgtttc 2940  
tcccagactg tactcaggtc caagaacaga atttactagt ctatccttct caaagttcat 3000  
cattaaattc agtcattcat cct 3023

<210> 11093  
<211> 3016  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (3).. (2294)

<400> 11093  
tgatgaatgg ctccaaaata cattttgtgc ccggctggga ttgtcatggg ttgcccattg 60  
aaataaaagt attatcagaa cttggttagag aagctcagaa tctttcagct atggaaatta 120  
gaaagaaagc tagatcattt gctaaagcag ccattgagaa acagaaatca gcattttattc 180  
gttgggggaat aatggcagat tggaataatt gctactatac atttgatggg aagtatgaag 240  
ccaaacagtt gagaactttt taccaaatgt atgataaggg cttggtttat cgtctttaca 300  
aacctgtgtt ttggtctccg tcacttagga ctgcattggc tgaagcagaa cttgaatata 360  
atcctgagca tgtcagtcgt tcaatatatg taaaatttcc tctcttaaag ccttctccaa 420  
aattggcatc tcttatagat ggttcattct ctgttagtat tttggtctgg accacacaac 480  
cttggacgat tccagccaat gaagctgttt gctatatgcc tgaatcaaag tatgctgttg 540  
tgaaatgttc taagtctgga gacctctacg tactggcggc agataaaagta gcactctgtt 600  
cttctacttt ggaaacaaca tttagacta tttcaacact ttcagggtga gatttggaaa 660  
atggtacttg cagtcatcca ttaattcctg ataaagcctc tctcttttta cctgcaaata 720  
atgtgaccat ggcaaaagga acgggatttg ttcacacagc ccagotcat ggtatggaag 780  
actacggtgt agcgtctcag cacaacctgc ccatggattg tctagtggac gaagatggag 840  
ttttcacaga tttgacaggt cctgaacttc aaaacaaggc tgtccttgaa gagggaaactg 900  
atgtggttat aaagatgctt cagactgcaa agaatttgtt gaaagaggag aaattggtgc 960  
atagctatcc gtatgactgg aggaccaaga aacctgtggt tattcgtgcc agcaagcagt 1020  
ggtttataaa catcacggat attaaagactg cagccaagga attgttaaaa aaggtgaaat 1080  
ttattcctgg atcagcactg aatggcatgg ttgaaatgat ggacaggcgg ccatattggt 1140  
gtatatcaag gcaaagagtt tggggtgttc caattcctgt gtttcatcat aagaccaagg 1200  
atgaatactt gatcaacagc caaaccactg agcatattgt taaactagtg gaacaacacg 1260  
gcagtgatat ctggtggact cttccccctg aacaacttct tccaaaagaa gtcttatctg 1320  
aggttggtgg ccctgatgcc ttggaatatg tgccagggtca ggatattttg gacatctggt 1380  
ttgatagcgg aacttcatgg tcttatgttc ttccagggtc tgaccaaaga gcagatttgt 1440

```

acttggaaagg aaaagaccag ctcggggggtt ggtttcagtc atccttatta acaagtgtgg 1500
cagcaaggaa gagagcacct tataagacag tgattgttca tggatttacc cttggagaaa 1560
agggagaaaa gatgtccaag tctcttggga atgtcattca tctgatgtt gtcgttaatg 1620
gaggacaaga tcaaagcaaa gagcctccgt atgggtgtga tgtccttcgc tgggtgggtag 1680
ctgattccaa tgtcttcacc gaagttagca ttggcccacg cgtgctcaat gctgccagag 1740
atgatattag caagcttagg aatacacttc gctttctttt gggaaatgtg gctgatttca 1800
accagaaac agattccatc cctgtaaagc atatgtatgt catagaccag tacatgctac 1860
acttactgca ggatttggca aacaagatta ccgaattata caaacaatat gattttggaa 1920
aagttgttcg gctgttacgg acgttttata ccagagagct ctctaacttt tatttcagta 1980
taatcaaaga taggctctat tgtgaaaagg aaaatgaccc caaacgacgc tcttgtcaga 2040
ctgcattagt tgaaattttg gatgtaatag ttcgttcttt tgcctccatt ctccctcacc 2100
tggtctgaaga ggtgttccag cacatacctt atattaaaga gcccagagt gttttccgta 2160
ctgggtggat tagtactagt tctatctgga aaaagcccgg gttggaagaa gcgtggagag 2220
tgctgtgca atgcgagact ctttcttgg aagcatccct ggcaaaaatg cagctgagta 2280
caaggttatc actgtgatag aacctggact gctttttgag ataatagaga tgctgcagtc 2340
tgaagagact tccagcacct ctcagttgaa tgaattaatg atggcttctg agtcaacttt 2400
actggctcag gaaccagag agatgactgc agatgtaatc gagcttaaag ggaaattcct 2460
catcaactta gaaggtggtg atattcgtga agagtcttcc tataaagtaa ttgtcatgcc 2520
gactacgaaa gaaaaatgcc cccgttgttg gaagtataca goggagtctt cagatacact 2580
gtgtcctcga tgtgcagaag ttgtcagtg aaatagtagt taacagctca ctcgagcaag 2640
aacctcctg acagtactgg ctagaagttt ggatggatta tttaacaatat aggaaagaaa 2700
gccaagattt aggtaatgag tggatgagta aatgggtggag gatgggagtc aaaatcagaa 2760
ttatagaaga agtatttcct gtaactatag aaagaattat gtatatatac atgcagaaat 2820
atatatgtgt gtgtgtatct gtggatggat atatgtatat ctcttcctat atatatccat 2880
agtggactta ttcagaacat agatatgtat tcagcttgtc ttcaaatacg gccaaagcaga 2940
aaatgtttta tttttataa atcatctttt gactctgtat tttaaattota tgatactgaa 3000
aataaaggca ttctgg                                     3016

```

<210> 11094

<211> 764

<212> PRT

<213> Homo sapiens

<400> 11094

```

Met Asn Gly Ser Lys Ile His Phe Val Pro Gly Trp Asp Cys His Gly
 1           5           10           15
Leu Pro Ile Glu Ile Lys Val Leu Ser Glu Leu Gly Arg Glu Ala Gln
      20           25           30
Asn Leu Ser Ala Met Glu Ile Arg Lys Lys Ala Arg Ser Phe Ala Lys
      35           40           45
Ala Ala Ile Glu Lys Gln Lys Ser Ala Phe Ile Arg Trp Gly Ile Met
      50           55           60
Ala Asp Trp Asn Asn Cys Tyr Tyr Thr Phe Asp Gly Lys Tyr Glu Ala
      65           70           75           80
Lys Gln Leu Arg Thr Phe Tyr Gln Met Tyr Asp Lys Gly Leu Val Tyr
      85           90           95
Arg Ser Tyr Lys Pro Val Phe Trp Ser Pro Ser Ser Arg Thr Ala Leu

```

09529469.072300



```

<210> 11095
<211> 3000
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (89)..(1060)

<400> 11095
tgacaaacag ctggagctct tggctcaaga ctataagctg cgaattaagc agattacgga 60

```

09629469.072300

ggaagtggag	aggcaggtgt	cgactgcaat	ggccgaggag	atcaggcgcc	tctctgtact	120
ggtggacgat	taccagatgg	acttccaccc	ttctccagta	gtcctcaagg	tttataagaa	180
tgagctgcac	cgccacatag	aggaaggact	gggtcgaaac	atgtctgacc	gctgctccac	240
ggccatcacc	aactccctgc	agaccatgca	gcaggacatg	atagatggct	tgaaccccct	300
ccttcctgtg	tctgtgcgga	gtcagataga	catgctggtc	ccacgccagt	gcttctccct	360
caactatgac	ctaaactgtg	acaagctgtg	tgtgtacttc	caggaagaca	ttgagttcca	420
tttctctctc	ggatggacca	tgctggtgaa	taggttcctg	ggccccaaga	acagccgtcg	480
ggccttgatg	ggccacaatg	accaggtcca	gcgccccatc	cctctgacgc	cagccaaccc	540
cagcatgccc	ccactgccac	agggtctgct	caccagggag	gagttcatgg	tttccatggt	600
taccggcctg	gcctccttga	catccaggac	ctccatgggc	attcttgttg	ttggaggagt	660
ggtgtggaag	gcagtgggct	ggcggctcat	tgccctctcc	tttgggctct	atggcctcct	720
ctacgtctat	gagcgtctga	cctggaccac	caaggccaag	gagagggcct	tcaagcgcca	780
gtttgtggag	catgccagcg	agaagctgca	gottgtcatc	agctacactg	gctccaactg	840
cagccaccaa	gtccagcagg	aactgtcttg	gacotttgct	catctgtgtc	agcaagttga	900
cgtcaccogg	gagaacctgg	agcaggaat	tgccgccatg	aacaagaaaa	ttgaggttct	960
tgactcactt	cagagcaaag	caaagctgct	caggaataaa	gccggttggt	tggacagtga	1020
gctcaacatg	ttcacacacc	agtacctgca	gccagcaga	tagtgggcac	ctgaggcgga	1080
gtctgcgtgg	agagggcgcg	tgctgccagc	cctaagtgcc	atgtgggctc	ccccaggggc	1140
acgtgtggct	cctgccccct	ggccactgcc	aagagaatga	agcaccagct	ctcgtaccat	1200
tttgagccct	ccagcactac	ttattttccc	ccacctttgc	ctgctgttgc	tggaagagct	1260
ggctcatacc	cccaaaggac	actttcagcg	acagctatgg	acagcatggt	accaaggagt	1320
taagttgagg	ctttttccag	ctttctcttg	ttcatttgat	tgcttgataa	ggcctcagga	1380
tctcagcatt	gcacaatgcc	tcattggaagc	ctttgagggt	atcacacaga	cacccccacc	1440
ttcctccagc	ctgtgcgcac	ctgccctcct	tgccagccag	cacacctgca	ggtgtaaggg	1500
acgattggag	tttcttccca	gagagtctgt	cccagaagga	ctgtggcttg	tgtgtgtcca	1560
tctcgcctgt	tggctcagtg	cttcatccca	tttgagagc	ctcagacacg	tcttggtggt	1620
gaggctcagt	tacccttggt	cttaggctga	ggcgggccct	gtgctggggg	tggtagaaag	1680
gatgctgctg	aggcagctgg	aggagtggga	gtagctcaga	ggggagggct	gttgatgta	1740
tggggagctg	gcagagcagg	tggcagtcac	tgggacaagg	agggaactgc	ctctcttctc	1800
attattgtgt	cctttgcttt	agtgtcagtc	ctggacttgt	gcaggcctgt	tttgtgtaga	1860
tctgttttgg	aagatggcat	ggtctagggt	gttggaaggat	gtagtagaag	gatggatggt	1920
ggaaggtggg	gacgttggtg	gctggctgag	gtgcatgggc	cccacacagg	acagctggag	1980
aatgggccgt	ccacttggcc	tcgttctgcg	aggggctcat	gggtctgaga	gccccaccc	2040
actaggcttg	attgcatccc	tgttgtgccc	tttaagagac	atgtttccac	cccaccccca	2100
acottgtccc	aagtgccttg	gactaaattt	cctgtgccag	tgactgcagt	tggccaaggg	2160
acaatgtgga	aaaccagtg	tccatctttc	cacctccct	gatctccaga	acottcgact	2220
gacccccctg	tctttatgct	gatgttgagt	tttgggattg	ttactggttg	aagtgggggc	2280
agatgcctgt	caccaagggt	ttgactgtgt	gagaaaagca	gtttgggtga	caaatcctgt	2340
gtggcacaag	ttggatcgct	tcctagaaat	aagcaacacc	tctcccaaaa	agcagcccac	2400
aaggcagggg	cccagcagcc	cagccatcac	tcattcttga	ggaaatgagt	tggtagcctc	2460
tgtgcactgt	ttggtggcca	catcacaggt	gatgtcctgt	tcacatacct	gottgtattt	2520
aaagccctca	gtctgtcctg	ttgtgtgggg	cgaagtgatg	gactctgcca	ggtggacatg	2580
ctgtgggtgg	atgttccogg	cgtgtgccgg	gcctgaatgg	acaggggcca	cttcacagca	2640
tgtcagggaa	aatcactgtc	acacaattcc	aatggatttt	gtgctctttt	tgaaaaaaaaa	2700
aaattcttta	gcgtaaacat	gaattttttt	tcaatgtagc	ccctggggaa	tgaatgaaat	2760
tttgagcttc	ttcaatacgt	aaaattaaat	ttataccact	gagggagaga	ccctttctga	2820
aagaagtatg	gccaaaagca	ctttaatgct	gctgacattg	ttgtttttat	gttcatttgc	2880
tggagcgcaa	gacgtgctga	cacagtgagt	tttctctgat	gtatttaagg	tgatgtattt	2940

-4551/13211-

gcttgagtta ctccgtgtatc attgctcata atattggaaa ctaaaataaa acctagttgg 3000

<210> 11096

<211> 324

<212> PRT

<213> Homo sapiens

<400> 11096

Met	Ala	Glu	Glu	Ile	Arg	Arg	Leu	Ser	Val	Leu	Val	Asp	Asp	Tyr	Gln
1				5					10					15	
Met	Asp	Phe	His	Pro	Ser	Pro	Val	Val	Leu	Lys	Val	Tyr	Lys	Asn	Glu
			20					25					30		
Leu	His	Arg	His	Ile	Glu	Glu	Gly	Leu	Gly	Arg	Asn	Met	Ser	Asp	Arg
		35					40					45			
Cys	Ser	Thr	Ala	Ile	Thr	Asn	Ser	Leu	Gln	Thr	Met	Gln	Gln	Asp	Met
	50					55					60				
Ile	Asp	Gly	Leu	Lys	Pro	Leu	Leu	Pro	Val	Ser	Val	Arg	Ser	Gln	Ile
65				70						75					80
Asp	Met	Leu	Val	Pro	Arg	Gln	Cys	Phe	Ser	Leu	Asn	Tyr	Asp	Leu	Asn
				85					90					95	
Cys	Asp	Lys	Leu	Cys	Ala	Asp	Phe	Gln	Glu	Asp	Ile	Glu	Phe	His	Phe
			100					105					110		
Ser	Leu	Gly	Trp	Thr	Met	Leu	Val	Asn	Arg	Phe	Leu	Gly	Pro	Lys	Asn
	115					120						125			
Ser	Arg	Arg	Ala	Leu	Met	Gly	His	Asn	Asp	Gln	Val	Gln	Arg	Pro	Ile
	130					135					140				
Pro	Leu	Thr	Pro	Ala	Asn	Pro	Ser	Met	Pro	Pro	Leu	Pro	Gln	Gly	Ser
145					150					155					160
Leu	Thr	Gln	Glu	Glu	Phe	Met	Val	Ser	Met	Val	Thr	Gly	Leu	Ala	Ser
			165						170					175	
Leu	Thr	Ser	Arg	Thr	Ser	Met	Gly	Ile	Leu	Val	Val	Gly	Gly	Val	Val
		180					185						190		
Trp	Lys	Ala	Val	Gly	Trp	Arg	Leu	Ile	Ala	Leu	Ser	Phe	Gly	Leu	Tyr
	195					200						205			
Gly	Leu	Leu	Tyr	Val	Tyr	Glu	Arg	Leu	Thr	Trp	Thr	Thr	Lys	Ala	Lys
	210					215					220				
Glu	Arg	Ala	Phe	Lys	Arg	Gln	Phe	Val	Glu	His	Ala	Ser	Glu	Lys	Leu
225				230						235					240
Gln	Leu	Val	Ile	Ser	Tyr	Thr	Gly	Ser	Asn	Cys	Ser	His	Gln	Val	Gln
			245						250				255		
Gln	Glu	Leu	Ser	Gly	Thr	Phe	Ala	His	Leu	Cys	Gln	Gln	Val	Asp	Val
		260					265						270		
Thr	Arg	Glu	Asn	Leu	Glu	Gln	Glu	Ile	Ala	Ala	Met	Asn	Lys	Lys	Ile
	275					280						285			
Glu	Val	Leu	Asp	Ser	Leu	Gln	Ser	Lys	Ala	Lys	Leu	Leu	Arg	Asn	Lys
	290				295						300				
Ala	Gly	Trp	Leu	Asp	Ser	Glu	Leu	Asn	Met	Phe	Thr	His	Gln	Tyr	Leu

09629469.072800

305  
Gln Pro Ser Arg

310

315

320

<210> 11097  
<211> 3208  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (249).. (2090)

<400> 11097  
ccaatcccat tctgggctcg gaggctgaca gtgaccgcag gacccatccg actctggggc 60  
ttcggggggc aatcctgggg agcccccaca ctcccctctt cctgccccat ggcttgggagc 120  
ccgaggctgg gggcaccttg cctctctgcc tgcagcccat tctcctcctg gaccctcag 180  
gctctcatgc cccgctgctg actgtgcccg ggcttggggc cttgcccttc cactttgccc 240  
agtccttaat gaccaccgag cggctctctg ggtcaggcct ccactggcca ctgagccgga 300  
ctcgctcgga gcccttgccc ccagtgcca ccgctcccc accgccgggc cccatgcagc 360  
cccgccctgga gcagctcaaa actcacgtcc aggtgatcaa gaggtcagcc aagccgagtg 420  
agaagccccg gctgcggcag ataccctcgg ctgaagacct ggagacagat ggcgggggac 480  
cgggccagggt ggtggacgat ggcctgggagc acaggggagct gggccatggg cagcctgagg 540  
ccagaggccc cgctcctctc cagcagcacc ctgagggtgtt gctctgggaa cagcagcgac 600  
tggctggggc gctcccccg ggcagcaccg gggacactgt gctgcttcct ctggcccagg 660  
gtgggcaccg gcctctgtcc cgggctcagt ctccccagc cgcacctgcc tcaactgtcag 720  
ccccagagcc tgccagccag gcccgagtcc tctccagctc agagaccct gccaggacc 780  
tgcccttcac cacagggtg atctatgact cggtcatgct gaagcaccag tgcctctgcg 840  
gtgacaacag caggcaccgc gagcacgcc gccgcacca gagcatctgg tcccggtgc 900  
aggagcgggg gctcctgagc cagtgtgagt gtctccgagg ccggaaggcc tccctggaag 960  
agctgcagtc ggtccactct gagcggcacg tgctcctcta cggcaccaac ccgctcagcc 1020  
gcctcaaaact ggacaacggg aagctggcag ggctcctggc gcagcggatg tttgtgatgc 1080  
tgccctgtgg tggggttggg gtggacactg acaccatctg gaatgagctt cattcctcca 1140  
atgcagcccc ctgggccgct ggcagtgtca ctgacctgc cttcaaagtg gcttctcgtg 1200  
agctaaagaa tggtttcgct gtggtgcggc cccaggaca ccatgcagat cattcaacag 1260  
ccatgggctt ctgcttcttc aactcagtgg ccatcgctg ccggcagctg caacagcaga 1320  
gcaaggccag caagatcctc attgtagact gggacgtgca ccatggcaac ggcaccagc 1380  
aaaccttcta ccaagacccc agtgtgctct acatctccct gcacgcccag gacgacggca 1440  
acttcttccc ggggagtggt gctgtggatg aggtaggggc tagcagcggg gagggttca 1500  
atgtcaatgt ggcctgggct ggaggtctgg acccccccct gggggatcct gactacctgg 1560  
ctgctttcag gatagtcgtg atgccatcg cccgagagtt ctctccagac ctagtccctg 1620  
tgtctgctgg atttgatgct gctgagggtc accgggcccc actgggtggc taccatgttt 1680  
ctgccaaatg ttttggatac atgacgcagc aactgatgaa cctggcagga ggcgcagtgg 1740  
tgctggcctt ggagggtggc catgatctca cagccatctg tgacgcctct gaggcctgtg 1800  
tggctgctct tctgggtaac aggggtggatc ccttttcaga agaaggctgg aaacagaaac 1860  
ccaacctcaa tgccatccgc tctctggagg ccgtgatccg ggtgcacagt aaatactggg 1920  
gctgcatgca gcgcctggcc tcctgtccag actcctgggt gcctagagtg ccaggggctg 1980

09629469.072300

```

acaaagaaga agtggaggca gtgaccgcac tggcgtccct ctctgtgggc atcctggctg 2040
aagataggcc ctcgagcag ctggtggagg aggaagaacc tatgaatctc taaggctctg 2100
gaaccatctg cccgcccacc atgcccttgg gacctgggtc tcttctaacc cctggcaata 2160
gccccattc ctgggtcttt agagatcctg tgggcgagta gttggaacca gagaacagcc 2220
tgcttgcttt gacagttatc ccaggagcgc tgagaaaaatc cctgggtcta gaatgggaac 2280
tggagaggac cctgagagga gacgggctgg gcggcgaccc ccacagggtc ctcgagaaca 2340
gattctcccc tccagtatgg gccctggctg tggcccccat tcctcaggac tgcacagagg 2400
aggactggct ccggctccgt cgggctcacc cttaaccact attcctggct ctgcaaacc 2460
cagactttgc acacagcccc aggcctccaca cagaaatgtg aacttggcct cagacaggct 2520
ggccttcct aggctctagg ggctagcggg gagtggggag ccaagaggtc ccatattcct 2580
gagtgcaggg gtagtccctc tcacctgctt cctcagacga ctctggaagc ttccctctac 2640
caccgggcac tgagacgaag ctccctgaca gccgagactg gcagccctcc atctggtccg 2700
taccctcgcc agaggcccc ctacatcaac ctctggcga tgccctggtg gagcagatgg 2760
gtgctctggg agtctgtgct ttctgatcc aatggtgcc aacccttcat ctccccaga 2820
agcgagcat acccctggga cccctcggcc actgccact cggggagcct tctctgtttc 2880
tggggcctcc cccaccatag ctctgattcc caccacacat aggaatagcc tgactgaggg 2940
ggaaggggtg ggagagaaga tacagacatg gaggagggga ggctgctctg gcaaagtctt 3000
caaggctttt gggggtccag gcctgggggc aagaaggaaa atgtgtgtga gcatgtgtgt 3060
gagtgagacg tgtgtgtgag cgtgtgtgtg agtgaggcgt gtgtgtgtgt ctttcctagg 3120
accaccata ccctgtgtat gtatgcatgt ttttgtaaaa aggaagaaaa tggaaaaaaa 3180
tctgaacaat aaatgtttta tttgcttt 3208

```

<210> 11098  
 <211> 614  
 <212> PRT  
 <213> Homo sapiens

<400> 11098

Met	Thr	Thr	Glu	Arg	Leu	Ser	Gly	Ser	Gly	Leu	His	Trp	Pro	Leu	Ser
1				5					10					15	
Arg	Thr	Arg	Ser	Glu	Pro	Leu	Pro	Pro	Ser	Ala	Thr	Ala	Pro	Pro	Pro
			20					25					30		
Pro	Gly	Pro	Met	Gln	Pro	Arg	Leu	Glu	Gln	Leu	Lys	Thr	His	Val	Gln
			35				40					45			
Val	Ile	Lys	Arg	Ser	Ala	Lys	Pro	Ser	Glu	Lys	Pro	Arg	Leu	Arg	Gln
	50					55					60				
Ile	Pro	Ser	Ala	Glu	Asp	Leu	Glu	Thr	Asp	Gly	Gly	Gly	Pro	Gly	Gln
65					70					75					80
Val	Val	Asp	Asp	Gly	Leu	Glu	His	Arg	Glu	Leu	Gly	His	Gly	Gln	Pro
				85					90					95	
Glu	Ala	Arg	Gly	Pro	Ala	Pro	Leu	Gln	Gln	His	Pro	Gln	Val	Leu	Leu
			100					105					110		
Trp	Glu	Gln	Gln	Arg	Leu	Ala	Gly	Arg	Leu	Pro	Arg	Gly	Ser	Thr	Gly
	115						120					125			
Asp	Thr	Val	Leu	Leu	Pro	Leu	Ala	Gln	Gly	Gly	His	Arg	Pro	Leu	Ser
130						135					140				
Arg	Ala	Gln	Ser	Ser	Pro	Ala	Ala	Pro	Ala	Ser	Leu	Ser	Ala	Pro	Glu

003220.69462960



145					150					155				160	
Pro	Ala	Ser	Gln	Ala	Arg	Val	Leu	Ser	Ser	Ser	Glu	Thr	Pro	Ala	Arg
				165					170					175	
Thr	Leu	Pro	Phe	Thr	Thr	Gly	Leu	Ile	Tyr	Asp	Ser	Val	Met	Leu	Lys
			180					185					190		
His	Gln	Cys	Ser	Cys	Gly	Asp	Asn	Ser	Arg	His	Pro	Glu	His	Ala	Gly
		195					200					205			
Arg	Ile	Gln	Ser	Ile	Trp	Ser	Arg	Leu	Gln	Glu	Arg	Gly	Leu	Leu	Ser
	210					215					220				
Gln	Cys	Glu	Cys	Leu	Arg	Gly	Arg	Lys	Ala	Ser	Leu	Glu	Glu	Leu	Gln
225					230					235					240
Ser	Val	His	Ser	Glu	Arg	His	Val	Leu	Leu	Tyr	Gly	Thr	Asn	Pro	Leu
				245					250					255	
Ser	Arg	Leu	Lys	Leu	Asp	Asn	Gly	Lys	Leu	Ala	Gly	Leu	Leu	Ala	Gln
		260					265					270			
Arg	Met	Phe	Val	Met	Leu	Pro	Cys	Gly	Gly	Val	Gly	Val	Asp	Thr	Asp
	275					280						285			
Thr	Ile	Trp	Asn	Glu	Leu	His	Ser	Ser	Asn	Ala	Ala	Arg	Trp	Ala	Ala
	290				295					300					
Gly	Ser	Val	Thr	Asp	Leu	Ala	Phe	Lys	Val	Ala	Ser	Arg	Glu	Leu	Lys
305					310					315					320
Asn	Gly	Phe	Ala	Val	Val	Arg	Pro	Pro	Gly	His	His	Ala	Asp	His	Ser
				325					330					335	
Thr	Ala	Met	Gly	Phe	Cys	Phe	Phe	Asn	Ser	Val	Ala	Ile	Ala	Cys	Arg
		340						345					350		
Gln	Leu	Gln	Gln	Gln	Ser	Lys	Ala	Ser	Lys	Ile	Leu	Ile	Val	Asp	Trp
	355						360					365			
Asp	Val	His	His	Gly	Asn	Gly	Thr	Gln	Gln	Thr	Phe	Tyr	Gln	Asp	Pro
	370				375						380				
Ser	Val	Leu	Tyr	Ile	Ser	Leu	His	Arg	His	Asp	Asp	Gly	Asn	Phe	Phe
385					390					395					400
Pro	Gly	Ser	Gly	Ala	Val	Asp	Glu	Val	Gly	Ala	Ser	Ser	Gly	Glu	Gly
				405					410					415	
Phe	Asn	Val	Asn	Val	Ala	Trp	Ala	Gly	Gly	Leu	Asp	Pro	Pro	Met	Gly
		420					425					430			
Asp	Pro	Glu	Tyr	Leu	Ala	Ala	Phe	Arg	Ile	Val	Val	Met	Pro	Ile	Ala
	435					440						445			
Arg	Glu	Phe	Ser	Pro	Asp	Leu	Val	Leu	Val	Ser	Ala	Gly	Phe	Asp	Ala
	450				455						460				
Ala	Glu	Gly	His	Pro	Ala	Pro	Leu	Gly	Gly	Tyr	His	Val	Ser	Ala	Lys
465					470					475					480
Cys	Phe	Gly	Tyr	Met	Thr	Gln	Gln	Leu	Met	Asn	Leu	Ala	Gly	Gly	Ala
				485					490					495	
Val	Val	Leu	Ala	Leu	Glu	Gly	Gly	His	Asp	Leu	Thr	Ala	Ile	Cys	Asp
		500					505					510			
Ala	Ser	Glu	Ala	Cys	Val	Ala	Ala	Leu	Leu	Gly	Asn	Arg	Val	Asp	Pro
	515					520					525				
Leu	Ser	Glu	Glu	Gly	Trp	Lys	Gln	Lys	Pro	Asn	Leu	Asn	Ala	Ile	Arg

09629459.072800

530		535		540
Ser Leu Glu Ala Val	Ile Arg Val His Ser Lys Tyr Trp Gly Cys Met			
545		550		555
Gln Arg Leu Ala Ser Cys Pro Asp Ser Trp Val Pro Arg Val Pro Gly				560
		565		570
Ala Asp Lys Glu Glu Val Glu Ala Val Thr Ala Leu Ala Ser Leu Ser				575
		580		585
Val Gly Ile Leu Ala Glu Asp Arg Pro Ser Glu Gln Leu Val Glu Glu				590
		595		600
Glu Glu Pro Met Asn Leu				605
610				

<210> 11099  
 <211> 3017  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (97).. (1563)

<400> 11099

tccgaggtct	ctgcagacaa	actggtggca	ctggggctgt	tcagccagca	ctttaatttg	60
gccaccttca	ataagctcgt	ctcctatcga	aaagccatgt	accatgctct	ggagaaagct	120
agggtgcgag	ctggcaagac	cttccccagc	agccctggag	actcattgga	ggaccagctc	180
aagcccatgt	tggagtgggc	ccacgggggc	ttcaagccca	ctgggatcga	gggcctcaaa	240
cccaacaaca	cgcaaccagt	ggttaataag	tcgaaggtgc	gtcgtgcagg	cagtaggaaa	300
ttagaatcaa	ggaaatacga	gaacaagact	cgaagacgca	cagctgacga	ctcagccacc	360
tctgactact	gccccgcacc	caagcgccctc	aagacaaatt	gctataacaa	cggcaaagac	420
cgaggggatg	aagatcagag	ccgagaacaa	atggcttcag	atgttgccaa	caacaagagc	480
agcctggaag	atggctgttt	gtcttgtggc	aggaaaaacc	ccgtgtcctt	ccaccctctc	540
tttgaggggg	ggctctgtca	gacatgccgg	gacgccttcc	ttgagctgtt	ttacatgtat	600
gatgacgatg	gctatcagtc	ttactgcact	gtgtgctgog	agggccgaga	gctgctgctt	660
tgcagcaaca	cgagctgctg	ccggtgtttc	tgtgtggagt	gcctggaggt	gctggtgggc	720
acaggcacag	cggccgaggc	caagcttcag	gagccctgga	gctgctacat	gtgtctcccg	780
cagcgctgtc	atggcgtcct	gcggcgccgg	aaggactgga	acgtgcgcct	gcaggccttc	840
ttcaccagtg	gcacggggct	tgaatacga	gcccccaagc	tgtaccctgc	catacccgca	900
gcccgaaggc	ggcccattcg	agtcctgtca	ttgtttgatg	gcatcgcgac	aggctacctt	960
gtcctcaaag	agttgggcat	aaaggtagga	aagtacgtcg	cttctgaagt	gtgtgaggag	1020
tccattgctg	ttggaaccgt	gaagcacgag	gggaatatca	aatacgtgaa	cgacgtgagg	1080
aacatcacaa	agaaaaatat	tgaagaatgg	ggccattttg	acttggtgat	tggcgggaagc	1140
ccatgcaacg	atctctcaaa	tgtgaatcca	gccaggaaag	gcctgtatga	gggtacaggc	1200
cggctcttct	tcgaatttta	ccacctgctg	aattactcac	gccccaaagga	gggtgatgac	1260
cggccgttct	tctggatgtt	tgagaatgtt	gtagccatga	aggttggcga	caagagggac	1320
atctcacggt	tcctggagtg	taatccagtg	atgattgatg	ccatcaaagt	ttctgctgct	1380
cacagggccc	gatacttctg	gggcaacctt	ccggggatga	acaggatctt	tggctttcct	1440
gtgcactaca	cagacgtgtc	caacatgggc	cgtggtgccc	gccagaagct	gctgggaagc	1500

09629469.072800



-4557/13211-

Asp Gln Ser Arg Glu Gln Met Ala Ser Asp Val Ala Asn Asn Lys Ser  
115 120 125  
Ser Leu Glu Asp Gly Cys Leu Ser Cys Gly Arg Lys Asn Pro Val Ser  
130 135 140  
Phe His Pro Leu Phe Glu Gly Gly Leu Cys Gln Thr Cys Arg Asp Arg  
145 150 155 160  
Phe Leu Glu Leu Phe Tyr Met Tyr Asp Asp Asp Gly Tyr Gln Ser Tyr  
165 170 175  
Cys Thr Val Cys Cys Glu Gly Arg Glu Leu Leu Leu Cys Ser Asn Thr  
180 185 190  
Ser Cys Cys Arg Cys Phe Cys Val Glu Cys Leu Glu Val Leu Val Gly  
195 200 205  
Thr Gly Thr Ala Ala Glu Ala Lys Leu Gln Glu Pro Trp Ser Cys Tyr  
210 215 220  
Met Cys Leu Pro Gln Arg Cys His Gly Val Leu Arg Arg Arg Lys Asp  
225 230 235 240  
Trp Asn Val Arg Leu Gln Ala Phe Phe Thr Ser Gly Thr Gly Leu Glu  
245 250 255  
Tyr Glu Ala Pro Lys Leu Tyr Pro Ala Ile Pro Ala Ala Arg Arg Arg  
260 265 270  
Pro Ile Arg Val Leu Ser Leu Phe Asp Gly Ile Ala Thr Gly Tyr Leu  
275 280 285  
Val Leu Lys Glu Leu Gly Ile Lys Val Gly Lys Tyr Val Ala Ser Glu  
290 295 300  
Val Cys Glu Glu Ser Ile Ala Val Gly Thr Val Lys His Glu Gly Asn  
305 310 315 320  
Ile Lys Tyr Val Asn Asp Val Arg Asn Ile Thr Lys Lys Asn Ile Glu  
325 330 335  
Glu Trp Gly Pro Phe Asp Leu Val Ile Gly Gly Ser Pro Cys Asn Asp  
340 345 350  
Leu Ser Asn Val Asn Pro Ala Arg Lys Gly Leu Tyr Glu Gly Thr Gly  
355 360 365  
Arg Leu Phe Phe Glu Phe Tyr His Leu Leu Asn Tyr Ser Arg Pro Lys  
370 375 380  
Glu Gly Asp Asp Arg Pro Phe Phe Trp Met Phe Glu Asn Val Val Ala  
385 390 395 400  
Met Lys Val Gly Asp Lys Arg Asp Ile Ser Arg Phe Leu Glu Cys Asn  
405 410 415  
Pro Val Met Ile Asp Ala Ile Lys Val Ser Ala Ala His Arg Ala Arg  
420 425 430  
Tyr Phe Trp Gly Asn Leu Pro Gly Met Asn Arg Ile Phe Gly Phe Pro  
435 440 445  
Val His Tyr Thr Asp Val Ser Asn Met Gly Arg Gly Ala Arg Gln Lys  
450 455 460  
Leu Leu Gly Arg Ser Trp Ser Val Pro Val Ile Arg His Leu Phe Ala  
465 470 475 480  
Pro Leu Lys Asp Tyr Phe Ala Cys Glu  
485

09629469.072800

<210> 11101  
<211> 3499  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (390).. (2501)

<400> 11101

```
ctgccaaatg gacccatctc actgagtttg aactgaaggg cctgaaagct ctggtggaga 60
aactggaatc cctcccggag aacaagaagt gcgtccccga gggcatcgag gacccccagg 120
cactcctgga ggggtgtgaag aacgtcctga aggagcacgc agatgatgac cctagtcttg 180
ccatcactgg ggtccctgtg gtgacttggc caaagaagac tccaaagaac cgggctgttg 240
gtcggcccaa ggggaagctg ggcccggcct ccgcggtgaa gttggccgcc aaccggacaa 300
cggcaggagc tcggcggcgc cggacgcgat gccgcaagtg cgaggcctgc ctgaggaccg 360
agtgcggaga gtgccacttc tgcaaggaca tgaagaagtt cgggggcccc gggcgcata 420
agcagagctg catcatgcgg cagtgcacgc cgccagtgtc gccccacacc gccgtgtgcc 480
ttgtgtgtgg cgaggcgggg aaggaagaca cgggtggaaga ggagggaaggc aagtttaacc 540
tcatgctcat ggagtgtctc atctgcaatg aaatcatcca ccctggatgc ctttaagatta 600
aggagtcaaa ggggtgtggc aacgacgagc ttccaaaactg ctgggagtgt ccgaagtgt 660
accacgccgg caagaccggg aaacaaaagc gtggcccttg otttaagtac gcctccaacc 720
tgcccggctc cctgtctcaag gagcagaaga tgaaccggga caacaaggaa gggcaggaa 780
ctgccaaagc gaggagttag tgtgaggagg cgcgccggcg caggtcggat gagcactcga 840
agaagggtgc gccggacggc cttctgcgca gaaagtctga cgacgtgcac ctgaggaaga 900
agcggaaata cgagaagccc caggagctga gtggacgcaa gcgggcctca tcgcttcaaa 960
cgtccccggg ttctctctct cacctctcgc cgaggcccc tctaggaagc agcctcagcc 1020
cctggtggag atccagtctc acttacttcc agcagcagct caaacctggc aaagaagata 1080
agcttttcag gaaaaagcgg cggctcctga agaacgccga ggaccgcatg gcgctggcca 1140
acaagccctc ccggcgcttc aagcaggaac ccgaggacga actgcccagc gcgcccccca 1200
agaccaggga gagcgaccac tcccgtcca gctccccac cgcgggaccc agcaccgaag 1260
gggcccaggg cccggaggag aagaagaagg tgaagatgcg ccggaagcgg cggcttccca 1320
acaaggagct gagcaggagg ctgagcaagg agctcaacca cgagatccag aggacggaga 1380
acagcctggc caacgagaac cagcagccca tcaagtcgga gcctgagagc gagggcgagg 1440
agcccaagcg gccccgggac atctgcgagc gtccccaccg cttcagcaag gggctcaacg 1500
gcaccccccg ggagctgcgg caccagctgg ggcccagcct gcgcagcccg ccccggtgtc 1560
tctcccggcc cccaccctcc gtgtccccgc ccaagtgtat ccagatggag cgccatgtga 1620
tccggccacc ccccatcagc ccccgccctg actcgctacc cctggacgat ggggcagccc 1680
acgtcatgca cagggaggtg tggatggcgg tcttcagcta cctcagccac caagacctgt 1740
gtgtgtgcat gcgggtctgc aggacctgga accgctggtg ctgcgataag cggttgtgga 1800
ccgcattga cctgaaccac tgcaagtcta tcacaccct gatgtgagt ggcacatcat 1860
ggcgacagcc cgtctccctc gacctcagct ggaccaatat ctccaagaag cagctgagct 1920
ggctcatcaa ccggctgcct gggctccggg acttggtgct gtcaggctgc tcatggatcg 1980
cggctctggc cctttgcagc tccagttgtc cgctgctccg gaccctggat gtccagtggg 2040
tggagggact aaaggatgcc cagatgcggg atctcctgtc ccgcccaca gacaacaggc 2100
caggtcagat ggacaatcgg agcaagctcc ggaacatcgt ggagctgcgc ctggcaggcc 2160
```

0032/0 59462960

```

tggacatcac agatgcctcc ctggggctca tcatccgcca catgcccctg ctctccaago 2220
tccacctcag ttactgtaac cactgcaccg accagtctat caacctgctc actgctgttg 2280
gcaccaccac ccgagactcc ttaaccgaga tcaacctgtc tgactgcaat aagggtcactg 2340
atcagtgcct gtccttcttc aaacgctgtg gaaacatctg tcatattgac ctgaggtact 2400
gcaagcaagt caccaaggaa ggctgtgagc agttcatagc cgagatgtct gtgagtgtcc 2460
agtttgggca agtagaagaa aaactcctgc aaaaactgag ttagtccaag gataatcttt 2520
ccaagggaga agctgttcaa ccacccgttt gggggatgag tgagccgaca ctttcctttg 2580
gtctttctga atcgtaactg cactgctttc tggaccattt ctaaggcggc ctttacaaga 2640
agacattcct gtcggagagg aggggtggact tcggagaaat tctcatactg aagcatgagc 2700
ttaggagttt ctgttagtgg tagtggtgtt ttggacactt cattccttgc aacaccgagg 2760
ttttgggtgt tgacataaag tggaccacac accacatctg ctgccgtctt gacacttttt 2820
tttgtttggt tggttttgtt acatcttaca ttatgcagaa ctatttttgt acaaatttgtt 2880
taaaagtat ttatgcaagg tttgaatgca taccagtgtt tttattgttt tgagattgcc 2940
aattttcctg atttccttaa ggtaggagag aatttaacgt gtacttcacg gacacaaccc 3000
atctacaaat gtgcccagat ctaacaaagt aggctaagac cttccactta aaagcatgtt 3060
taactggaag ttgagagtct gctttgtacc tcaagagtta catgagcatg ttgtggataa 3120
atgtaaatta tagtcaaagt aagatactct gccaaagttc ctctgtagag aattcacttt 3180
tctcaaattt taaaatttcg acttcagcct ttgcactcag gaggttctgc tccagcatga 3240
gctcttgtag ttacatagat ctaattttata cagtgagtca agacgtagaa taaatgctcc 3300
cacatagcct ttcttttgtt tttgcttctc tctctgaag tgtgagttga gttctcattt 3360
aggtttgtta catggctatt tcttagttgt aaagtctctg atttataagt gccattgttg 3420
taagggtgtg tttcctagac cttccctgat gcgattttac cttgtttgaa tttgtataaa 3480
caattgtaca aaaaaaac 3499

```

<210> 11102  
 <211> 704  
 <212> PRT  
 <213> Homo sapiens

<400> 11102

Met	Lys	Lys	Phe	Gly	Gly	Pro	Gly	Arg	Met	Lys	Gln	Ser	Cys	Ile	Met
1				5				10						15	
Arg	Gln	Cys	Ile	Ala	Pro	Val	Leu	Pro	His	Thr	Ala	Val	Cys	Leu	Val
			20					25					30		
Cys	Gly	Glu	Ala	Gly	Lys	Glu	Asp	Thr	Val	Glu	Glu	Glu	Glu	Gly	Lys
		35					40					45			
Phe	Asn	Leu	Met	Leu	Met	Glu	Cys	Ser	Ile	Cys	Asn	Glu	Ile	Ile	His
	50					55					60				
Pro	Gly	Cys	Leu	Lys	Ile	Lys	Glu	Ser	Glu	Gly	Val	Val	Asn	Asp	Glu
	65				70					75				80	
Leu	Pro	Asn	Cys	Trp	Glu	Cys	Pro	Lys	Cys	Asn	His	Ala	Gly	Lys	Thr
			85					90						95	
Gly	Lys	Gln	Lys	Arg	Gly	Pro	Gly	Phe	Lys	Tyr	Ala	Ser	Asn	Leu	Pro
			100					105					110		
Gly	Ser	Leu	Leu	Lys	Glu	Gln	Lys	Met	Asn	Arg	Asp	Asn	Lys	Glu	Gly
	115						120					125			
Gln	Glu	Pro	Ala	Lys	Arg	Arg	Ser	Glu	Cys	Glu	Glu	Ala	Pro	Arg	Arg

-4560/13211-

130						135						140					
Arg	Ser	Asp	Glu	His	Ser	Lys	Lys	Val	Pro	Pro	Asp	Gly	Leu	Leu	Arg		
145						150					155				160		
Arg	Lys	Ser	Asp	Asp	Val	His	Leu	Arg	Lys	Lys	Arg	Lys	Tyr	Glu	Lys		
				165							170				175		
Pro	Gln	Glu	Leu	Ser	Gly	Arg	Lys	Arg	Ala	Ser	Ser	Leu	Gln	Thr	Ser		
			180					185					190				
Pro	Gly	Ser	Ser	Ser	His	Leu	Ser	Pro	Arg	Pro	Pro	Leu	Gly	Ser	Ser		
		195					200					205					
Leu	Ser	Pro	Trp	Trp	Arg	Ser	Ser	Leu	Thr	Tyr	Phe	Gln	Gln	Gln	Leu		
	210					215					220						
Lys	Pro	Gly	Lys	Glu	Asp	Lys	Leu	Phe	Arg	Lys	Lys	Arg	Arg	Ser	Trp		
225					230					235					240		
Lys	Asn	Ala	Glu	Asp	Arg	Met	Ala	Leu	Ala	Asn	Lys	Pro	Leu	Arg	Arg		
				245					250					255			
Phe	Lys	Gln	Glu	Pro	Glu	Asp	Glu	Leu	Pro	Glu	Ala	Pro	Pro	Lys	Thr		
			260					265					270				
Arg	Glu	Ser	Asp	His	Ser	Arg	Ser	Ser	Ser	Pro	Thr	Ala	Gly	Pro	Ser		
		275					280					285					
Thr	Glu	Gly	Ala	Glu	Gly	Pro	Glu	Glu	Lys	Lys	Lys	Val	Lys	Met	Arg		
	290					295					300						
Arg	Lys	Arg	Arg	Leu	Pro	Asn	Lys	Glu	Leu	Ser	Arg	Glu	Leu	Ser	Lys		
305					310					315					320		
Glu	Leu	Asn	His	Glu	Ile	Gln	Arg	Thr	Glu	Asn	Ser	Leu	Ala	Asn	Glu		
				325					330					335			
Asn	Gln	Gln	Pro	Ile	Lys	Ser	Glu	Pro	Glu	Ser	Glu	Gly	Glu	Glu	Pro		
			340					345					350				
Lys	Arg	Pro	Pro	Gly	Ile	Cys	Glu	Arg	Pro	His	Arg	Phe	Ser	Lys	Gly		
		355					360					365					
Leu	Asn	Gly	Thr	Pro	Arg	Glu	Leu	Arg	His	Gln	Leu	Gly	Pro	Ser	Leu		
	370					375					380						
Arg	Ser	Pro	Pro	Arg	Val	Ile	Ser	Arg	Pro	Pro	Pro	Ser	Val	Ser	Pro		
385					390					395					400		
Pro	Lys	Cys	Ile	Gln	Met	Glu	Arg	His	Val	Ile	Arg	Pro	Pro	Pro	Ile		
				405					410					415			
Ser	Pro	Pro	Pro	Asp	Ser	Leu	Pro	Leu	Asp	Asp	Gly	Ala	Ala	His	Val		
			420					425					430				
Met	His	Arg	Glu	Val	Trp	Met	Ala	Val	Phe	Ser	Tyr	Leu	Ser	His	Gln		
		435					440					445					
Asp	Leu	Cys	Val	Cys	Met	Arg	Val	Cys	Arg	Thr	Trp	Asn	Arg	Trp	Cys		
	450					455					460						
Cys	Asp	Lys	Arg	Leu	Trp	Thr	Arg	Ile	Asp	Leu	Asn	His	Cys	Lys	Ser		
465					470					475					480		
Ile	Thr	Pro	Leu	Met	Leu	Ser	Gly	Ile	Ile	Arg	Arg	Gln	Pro	Val	Ser		
				485					490					495			
Leu	Asp	Leu	Ser	Trp	Thr	Asn	Ile	Ser	Lys	Lys	Gln	Leu	Ser	Trp	Leu		
			500					505					510				
Ile	Asn	Arg	Leu	Pro	Gly	Leu	Arg	Asp	Leu	Val	Leu	Ser	Gly	Cys	Ser		

003270.63462960

-4561/13211-

515 520 525  
Trp Ile Ala Val Ser Ala Leu Cys Ser Ser Ser Cys Pro Leu Leu Arg  
530 535 540  
Thr Leu Asp Val Gln Trp Val Glu Gly Leu Lys Asp Ala Gln Met Arg  
545 550 555 560  
Asp Leu Leu Ser Pro Pro Thr Asp Asn Arg Pro Gly Gln Met Asp Asn  
565 570 575  
Arg Ser Lys Leu Arg Asn Ile Val Glu Leu Arg Leu Ala Gly Leu Asp  
580 585 590  
Ile Thr Asp Ala Ser Leu Arg Leu Ile Ile Arg His Met Pro Leu Leu  
595 600 605  
Ser Lys Leu His Leu Ser Tyr Cys Asn His Val Thr Asp Gln Ser Ile  
610 615 620  
Asn Leu Leu Thr Ala Val Gly Thr Thr Thr Arg Asp Ser Leu Thr Glu  
625 630 635 640  
Ile Asn Leu Ser Asp Cys Asn Lys Val Thr Asp Gln Cys Leu Ser Phe  
645 650 655  
Phe Lys Arg Cys Gly Asn Ile Cys His Ile Asp Leu Arg Tyr Cys Lys  
660 665 670  
Gln Val Thr Lys Glu Gly Cys Glu Gln Phe Ile Ala Glu Met Ser Val  
675 680 685  
Ser Val Gln Phe Gly Gln Val Glu Glu Lys Leu Leu Gln Lys Leu Ser  
690 695 700

<210> 11103  
<211> 3239  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (77).. (1714)

<400> 11103  
ccgttgcccc gaagagcgag atcgagcttg gccccctccc ccccctcctt cctccctccc 60  
ttccttccgc cgcaacatgg ctaacaacag ccccgcgctg acaggcaact cgcagccgca 120  
gcaccaggcg gctgcagctg cggctcagca acagcagcag tgcggcggcg gcggcgctac 180  
caagccggcg gtctccggca agcaggggcaa tgtgctcccg ctctggggca gcgagaagac 240  
catgaacctc aaccccatga tcctgaccaa catcctgtcg tcgccttact tcaaaagtaca 300  
gctctacgag ctcaagacct accacgaggt ggtggacgag atctacttta aggtcacgca 360  
cgttgaacca tgggagaaag gaagcaggaa aacagcgggc cagacaggga tgtgcggagg 420  
ggttcgaggt gttggaacag gaggaattgt ttctacagca ttttgccctgt tatacaaatt 480  
atttaccctg aagttaactc gaaagcaagt gatgggtcctt ataacacaca cagactctcc 540  
atatattaga gcgcttgat ttatgtatat aagatatata cagcccccta cagatctgtg 600  
ggactgggtt gaatccttcc ttgatgatga agaggaccta gatgtgaagg ctgggtggagg 660  
ctgtgtaatg accattggag aaatgctacg atcttttctc acaaaactgg agtgggtttc 720  
taccttggtt ccaagaattc cagttccagt tcaaaagaat attgatcaac agattaaaaa 780

09629469.072800



008220 59452960

```

ccgacctaga aaaatcaaga aagatgggaa ggaaggtgct gaggaaatag acagacatgt 840
tgaacgcaga cgttcaaggt ctccaaggag atctctgagt ccacggaggt ccccaagaag 900
gtcaagaagt agaagtcato atcgggaggg ccatgggtct tctagttttg acagagaatt 960
agaaagagag aaagaacgcc agcgactaga gcgtgaagcc aaagaaaggg agaaagaacg 1020
gcgaagatcc cgaagtattg accgggggtt agaacgcagg cgcagcagaa gtagggaaag 1080
gcatagaagt cgcagtcgaa gtcgtgatag gaaaggggat agaagggaca gggatcgaga 1140
aagagagaaa gaaaatgaga gaggtagaag acgagatcgt gactatgata aggaaagagg 1200
aaatgaacga gaaaaagaga gagagcgatc aagagaaagg tccaaggaa acagagatga 1260
gggagaggta gaagagaaga aacataaaga agacaaagat gataggcggc acagagatga 1320
caaaagagat tccaagaaag agaaaaaaca cagtagaagc agaagcagag aaaggaaaca 1380
cagaagtagg agtcgaagta gaaatgcagg gaaacgaagt agaagtagaa gcaaagagaa 1440
atcaagtaaa cataaaaatg aaagtaaaga aaaatcaaat aaacgaagtc gaagtggcag 1500
tcaaggaaga actgacagtg ttgaaaaatc aaaaaaacgg gaacatagtc ccagcaaaga 1560
aaaatctaga aagcgtagta gaagcaaaga acgttccac aaacgagatc acagtgatag 1620
taaggaccag tcagacaaac atgatcgtcg aaggagccaa agtatagaac aagagagcca 1680
agaaaaacag cataaaaaca aagatgagac tgtgtgaaaa tattttgtaa aagtgttca 1740
cattgaatcc tataaatgat taaatctgct ttttccccc acgttgagat tgtgcagtag 1800
ttcgactcc tcaagctctc cctgtaggct gcattttcat ttctctttc gtgtagggaa 1860
gtgcctttgt aattccattt attgcattgg tgttttcacc caattgttaa gtttgataca 1920
tgatgcacag attgttcttg catTTTTtatt gtttgttttt gaaatgtaca gtctgtacat 1980
atgtcctgaa aatgttttaa ttcttttggc atggttgcca tgtttgttaa atttgtataa 2040
ggcaataaac tgccactaat ctatttttgt tttgtagggtg tgggattatg gtttgtgtac 2100
tgaagttagc atggctgtgc ttttcgtaat agaattgctaa agactttgag aatggatctt 2160
ggatgtctat tataggagaa gtatgtgctg ccaatgtaca agaaggcagc attgtaggat 2220
taacattctt gtctactgta tattatcttg gaaggctctt gttaatatgt tacacttaat 2280
attctccaca gttaccttta gagagaattt atgagaagtt agttttctgat gcagaggttt 2340
ttaggctgtg atttcatcaa aagtcctttt agcattctac ctcaaaggga cacttagtat 2400
gcctaaaatt tattcactta gttttccttt ttttatttga aaaaatacat gacatgtaat 2460
ctttttttct tgaattcttt ctgagatttt aaagtactat attaaagaaa aaaattaatg 2520
tctaaagcct agcattcttg cagaacccta tactaacatg taatggggag aggggtggggc 2580
agatgagtag agaaacagat tcaagcctca agcttccaaa gcatttttat aaatggaaaa 2640
tccttaaaatt atgaaacagc ttgatatagt gtcttttttt taaaattcag aacttttttt 2700
attgataatg gagattgctg tttgagtttt taaacttaat ctagaacaga ggagtattaa 2760
aagtaatgct gtgctgcatt atttaagact atcagcaaat tatttgatag attgttctta 2820
caacttgtat tctgattaca gaaccatcat gagtgtggaa taaatactgg attaaatcct 2880
ttatcctggg tcttggcttt tccccattt gttaaatttt tttagcatat ttatatgtg 2940
gaaattgatg aaacgtcagt agagtcacac tttgtgtaca gggatgtctt agtgcacaga 3000
tgacaagtga attttgaga aatgcataga ctgggattgg gcattgtgta atcaataatc 3060
tttattagaa tacttgataa tggcagttcc ctttgtcagt ggttgttaca tgtgtcattt 3120
gattactttg ttccatgtca aagacgttta ttgggatacc ttttacttgg acaatatgtt 3180
agcatttttt aaaatttgga cttgaaattc tttaagataa ttcaccaaat tctttttag 3239

```

<210> 11104

<211> 546

<212> PRT

<213> Homo sapiens

<400> 11104

Met	Ala	Asn	Asn	Ser	Pro	Ala	Leu	Thr	Gly	Asn	Ser	Gln	Pro	Gln	His
1				5					10					15	
Gln	Ala	Ala	Ala	Ala	Ala	Ala	Gln	Gln	Gln	Gln	Gln	Cys	Gly	Gly	Gly
			20					25					30		
Gly	Ala	Thr	Lys	Pro	Ala	Val	Ser	Gly	Lys	Gln	Gly	Asn	Val	Leu	Pro
		35					40					45			
Leu	Trp	Gly	Ser	Glu	Lys	Thr	Met	Asn	Leu	Asn	Pro	Met	Ile	Leu	Thr
	50					55					60				
Asn	Ile	Leu	Ser	Ser	Pro	Tyr	Phe	Lys	Val	Gln	Leu	Tyr	Glu	Leu	Lys
65					70					75					80
Thr	Tyr	His	Glu	Val	Val	Asp	Glu	Ile	Tyr	Phe	Lys	Val	Thr	His	Val
				85					90					95	
Glu	Pro	Trp	Glu	Lys	Gly	Ser	Arg	Lys	Thr	Ala	Gly	Gln	Thr	Gly	Met
			100					105					110		
Cys	Gly	Gly	Val	Arg	Gly	Val	Gly	Thr	Gly	Gly	Ile	Val	Ser	Thr	Ala
	115						120					125			
Phe	Cys	Leu	Leu	Tyr	Lys	Leu	Phe	Thr	Leu	Lys	Leu	Thr	Arg	Lys	Gln
	130					135					140				
Val	Met	Gly	Leu	Ile	Thr	His	Thr	Asp	Ser	Pro	Tyr	Ile	Arg	Ala	Leu
145					150					155					160
Gly	Phe	Met	Tyr	Ile	Arg	Tyr	Thr	Gln	Pro	Pro	Thr	Asp	Leu	Trp	Asp
				165					170					175	
Trp	Phe	Glu	Ser	Phe	Leu	Asp	Asp	Glu	Glu	Asp	Leu	Asp	Val	Lys	Ala
			180					185					190		
Gly	Gly	Gly	Cys	Val	Met	Thr	Ile	Gly	Glu	Met	Leu	Arg	Ser	Phe	Leu
		195					200					205			
Thr	Lys	Leu	Glu	Trp	Phe	Ser	Thr	Leu	Phe	Pro	Arg	Ile	Pro	Val	Pro
	210					215					220				
Val	Gln	Lys	Asn	Ile	Asp	Gln	Gln	Ile	Lys	Thr	Arg	Pro	Arg	Lys	Ile
225					230					235					240
Lys	Lys	Asp	Gly	Lys	Glu	Gly	Ala	Glu	Glu	Ile	Asp	Arg	His	Val	Glu
				245					250					255	
Arg	Arg	Arg	Ser	Arg	Ser	Pro	Arg	Arg	Ser	Leu	Ser	Pro	Arg	Arg	Ser
			260					265					270		
Pro	Arg	Arg	Ser	Arg	Ser	Arg	Ser	His	His	Arg	Glu	Gly	His	Gly	Ser
		275					280					285			
Ser	Ser	Phe	Asp	Arg	Glu	Leu	Glu	Arg	Glu	Lys	Glu	Arg	Gln	Arg	Leu
	290					295					300				
Glu	Arg	Glu	Ala	Lys	Glu	Arg	Glu	Lys	Glu	Arg	Arg	Arg	Ser	Arg	Ser
305					310					315					320
Ile	Asp	Arg	Gly	Leu	Glu	Arg	Arg	Arg	Ser	Arg	Ser	Arg	Glu	Arg	His
				325					330					335	
Arg	Ser	Arg	Ser	Arg	Ser	Arg	Asp	Arg	Lys	Gly	Asp	Arg	Arg	Asp	Arg
			340					345					350		
Asp	Arg	Glu	Arg	Glu	Lys	Glu	Asn	Glu	Arg	Gly	Arg	Arg	Arg	Asp	Arg
		355					360					365			
Asp	Tyr	Asp	Lys	Glu	Arg	Gly	Asn	Glu	Arg	Glu	Lys	Glu	Arg	Glu	Arg

003240" 69462960

370                      375                      380  
 Ser Arg Glu Arg Ser Lys Glu Gln Arg Ser Arg Gly Glu Val Glu Glu  
 385                      390                      395                      400  
 Lys Lys His Lys Glu Asp Lys Asp Asp Arg Arg His Arg Asp Asp Lys  
                     405                      410                      415  
 Arg Asp Ser Lys Lys Glu Lys Lys His Ser Arg Ser Arg Ser Arg Glu  
                     420                      425                      430  
 Arg Lys His Arg Ser Arg Ser Arg Ser Arg Asn Ala Gly Lys Arg Ser  
                     435                      440                      445  
 Arg Ser Arg Ser Lys Glu Lys Ser Ser Lys His Lys Asn Glu Ser Lys  
                     450                      455                      460  
 Glu Lys Ser Asn Lys Arg Ser Arg Ser Gly Ser Gln Gly Arg Thr Asp  
 465                      470                      475                      480  
 Ser Val Glu Lys Ser Lys Lys Arg Glu His Ser Pro Ser Lys Glu Lys  
                     485                      490                      495  
 Ser Arg Lys Arg Ser Arg Ser Lys Glu Arg Ser His Lys Arg Asp His  
                     500                      505                      510  
 Ser Asp Ser Lys Asp Gln Ser Asp Lys His Asp Arg Arg Ser Gln  
                     515                      520                      525  
 Ser Ile Glu Gln Glu Ser Gln Glu Lys Gln His Lys Asn Lys Asp Glu  
                     530                      535                      540  
 Thr Val  
 545

<210> 11105  
 <211> 3891  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1524).. (3251)

<400> 11105  
 aaaaaaaaaa aaaaacaatg gtacatTTTT acatgggaac aaaaggacct gaaaatcctc 60  
 aagttgaagt gttatcagag gaagaagggg aagaagaaga ggaggaagaa gatatcctct 120  
 ctctggcaga agaaaaatac aggccagctg cccttgaaaa gatgatagct ttagttgctc 180  
 ttttggttga acagtctcga tcagaaaggc atttgacatt atcacagact gacatggcag 240  
 cattaacagg aggaaaggga tttcccttct tgtttcaaca tattcgtgat ggcatacaata 300  
 taagacaaaac ttgtaatctg attttcagcc tgtgtcgata caataatcga cttgcagaac 360  
 atattgtatc tatgcttttc acatcaatag caaagttgac tcctgaggca gccaatcctt 420  
 tctttaagtt gttgactatg ctaatggagt ttgctggttg acctccagga atgcctccct 480  
 ttgcatctta tattctgcag aggatatggg aggtgattga atacaatcct tctcagtgtc 540  
 tagattggtt ggcagtgcag acaccccgaa ataaactggc acacagctgg gtcttacaga 600  
 atatggaaaa ctgggtcgag cggtttcttt tggctcacia ttatcctaga gtgaggactt 660  
 ctgcagctta tcttctggtg tcccttatac caagcaattc attccgtcag atgttccggt 720  
 caacaaggtc tttgcacatc ccaaccctg accttccact cagtccagac acaacagtag 780

003270 6946260

tcctacatca	ggtctacaac	gtgctccttg	gtttgctctc	aagagccaaa	ctttatgttg	840
atgctgctgt	tcatggcact	acaaagctag	tgccctatgt	tagctttatg	acttactgtt	900
taatttccaa	aactgagaag	ctgatgtttt	ccacatatgt	catggatttg	tggaaccttt	960
tccagcctaa	actttctgag	ccagcaatag	ctacaaatca	caataaacag	gctttgcttt	1020
cattttggta	caatgtctgt	gctgactgtc	cagagaatat	cgcctttatt	gttcagaacc	1080
cagtggtaac	caagaacatt	gccttcaatt	acatccttgc	tgaccatgat	gatcaggatg	1140
tggtgctttt	taaccgtggg	atgctgccag	cgtactatgg	cattctgagg	ctctgctgtg	1200
agcagtctcc	tgcattcaca	cgacaactgg	cttctcacca	gaacatccag	tgggccttta	1260
agaatcttac	accacatgcc	agccaatacc	ctggagcagt	agaagaactg	tttaacctga	1320
tgagctgttt	tatagctcag	aggccagata	tgagataaga	agaattagaa	gatattaaac	1380
agttcaagaa	aacaaccata	agttgttact	tacgttgctt	agatggccgc	tcctgctgga	1440
ctactttaat	aagtgccttc	agaatactat	tagaatctga	tgaagacaga	cttcttggtg	1500
tatttaatcg	aggattgatt	ctaattgacag	agtctttcaa	cactttgcac	atgatgtatc	1560
acgaagctac	agcttgccat	gtgactggag	atttagtaga	acttctgtca	atatttcttt	1620
cggttttgaa	gtctacacgc	ccttatcttc	agagaaaaga	tgtgaaacaa	gcattaatcc	1680
agtggcagga	gcgaattgaa	tttgcccata	aactgttaac	tcttcttaat	tcctatagtc	1740
ctccagaact	tagaaatgcc	tgtatagatg	tctcaagga	acttgtactt	ttgagtcctc	1800
atgattttct	tcatactctg	gttccctttc	tacaacacaa	ccattgtact	taccatcaca	1860
gtaatatacc	aatgtctctt	ggaccttatt	tcccttgctg	agaaaaatc	aagctaatag	1920
gagggaaaag	caatattcgg	cctccgcgcc	ctgaactcaa	tatgtgcctc	ttgcccacaa	1980
tggtggaaac	cagtaagggc	aaagatgacg	tttatgatcg	tatgctgcta	gactacttct	2040
tttcttatca	tcagttcatc	catctattat	gccgagttgc	aatcaactgt	gaaaaattta	2100
ctgaaacatt	agttaagctg	agtgtcctag	ttgcctatga	aggtttgcca	cttcatcttg	2160
cactgttccc	caaacttttg	actgagctat	gccagactca	gtctgctatg	tcaaaaaact	2220
gcatcaagct	tttgtgtgaa	gatcctgttt	tgcgagaata	tattaaatgt	atcctaattg	2280
atgaaagaac	ttttttaaac	aacaacattg	tctacacgtt	catgacacat	ttccttctaa	2340
aggttcaaag	tcaagtgttt	tctgaagcaa	actgtgccaa	tttgatcagc	actcttatta	2400
caaacttgat	aagccagtat	cagaacctac	agtctgattt	ctccaaccga	gttgaaattt	2460
ccaaagcaag	tgcttcttta	aatggggacc	tgagggcact	cgttttgctc	ctgtcagtac	2520
acactcccaa	acagttaaac	ccagctctaa	ttccaactct	gcaagagctt	ttaagcaaat	2580
gcaggacttg	tctgcaacag	agaaactcac	tccaagagca	agaagccaaa	gaaagaaaaa	2640
ctaaagatga	tgaaggagca	actcccatta	aaaggcggcg	tgtagcagct	gatgaggagc	2700
acactgtaga	cagctgcctc	agtgcacatg	aaacagaaac	caggagggtc	ctgaccccaa	2760
cgagcacttc	tgacaatgag	accagagact	cctcaattat	tgatccagga	actgagcaag	2820
atcttctctc	ccctgaaaat	agttctgtta	aagaataccg	aatggaagtt	ccatcttctg	2880
tttcagaaga	catgtcaaat	atcagggtcac	agcatgcaga	agaacagtcc	aacaatggta	2940
gatatgacga	ttgtaaagaa	tttaaagacc	tccactgttc	caaggattct	accctagctg	3000
aggaagaatc	tgagttccct	tctacttcta	tctctgcagt	tctgtctgac	ttagctgact	3060
tgagaagctg	tgatggccaa	gctttgccct	cccaggaccc	tgaggttgct	ttatctctca	3120
gttgtggcca	ttccagagga	ctcttttagtc	atatgcagca	acatgacatt	ttagataccc	3180
tgtgtaggac	cattgaaatc	acaatccatg	togtcacaag	gatattctggc	aaaggaaacc	3240
aagctgcttc	ttgacattag	gtgtagcatg	tctactttta	agtccctcac	ccccaacccc	3300
catgctgttt	gtataagttt	tgcttatttg	tttttgtgtc	tcagtttgct	cagtgtctctc	3360
tgcttgaatg	gcaagataga	tttataggct	taattctcgg	tcaggcagaa	ctccagatga	3420
aaaaaacttg	catcttcagt	atacttctta	aagggcgaatc	agataatgga	tatgttttat	3480
gtaattaaga	gttcacttta	gtggctttca	tttaatatgg	ctgtctggga	agaacagggt	3540
tgccatagccc	tgtacaatgt	aatttaaaact	tacagcattt	ttactgtgta	tgatatgggtg	3600
tcctctgtgc	cagttttgta	ccttatagag	gcagattgcc	tccgatcgct	gtggttctta	3660

-4566/13211-

ttatcaaaat taagtttact tgtatacgga acaaccacaa gaaatttgat tctgtaaaga 3720  
atcctcttta gctgtggcct ggcagtatat aaatgggtgct ttatttaaca gaatacctgt 3780  
ggaggaaata aagcacactt gatgtaaaaa taattgtttt atttttattg acatgactga 3840  
ttgattgatt gctattctgt gcacttaatt aaactgattg tgatgacttt t 3891

<210> 11106  
<211> 576  
<212> PRT  
<213> Homo sapiens

<400> 11106

Met	Thr	Glu	Ser	Phe	Asn	Thr	Leu	His	Met	Met	Tyr	His	Glu	Ala	Thr
1				5					10					15	
Ala	Cys	His	Val	Thr	Gly	Asp	Leu	Val	Glu	Leu	Leu	Ser	Ile	Phe	Leu
			20				25						30		
Ser	Val	Leu	Lys	Ser	Thr	Arg	Pro	Tyr	Leu	Gln	Arg	Lys	Asp	Val	Lys
		35					40					45			
Gln	Ala	Leu	Ile	Gln	Trp	Gln	Glu	Arg	Ile	Glu	Phe	Ala	His	Lys	Leu
	50					55				60					
Leu	Thr	Leu	Leu	Asn	Ser	Tyr	Ser	Pro	Pro	Glu	Leu	Arg	Asn	Ala	Cys
65					70					75				80	
Ile	Asp	Val	Leu	Lys	Glu	Leu	Val	Leu	Leu	Ser	Pro	His	Asp	Phe	Leu
				85					90					95	
His	Thr	Leu	Val	Pro	Phe	Leu	Gln	His	Asn	His	Cys	Thr	Tyr	His	His
			100				105						110		
Ser	Asn	Ile	Pro	Met	Ser	Leu	Gly	Pro	Tyr	Phe	Pro	Cys	Arg	Glu	Asn
	115						120					125			
Ile	Lys	Leu	Ile	Gly	Gly	Lys	Ser	Asn	Ile	Arg	Pro	Pro	Arg	Pro	Glu
	130					135					140				
Leu	Asn	Met	Cys	Leu	Leu	Pro	Thr	Met	Val	Glu	Thr	Ser	Lys	Gly	Lys
145					150					155				160	
Asp	Asp	Val	Tyr	Asp	Arg	Met	Leu	Leu	Asp	Tyr	Phe	Phe	Ser	Tyr	His
				165					170					175	
Gln	Phe	Ile	His	Leu	Leu	Cys	Arg	Val	Ala	Ile	Asn	Cys	Glu	Lys	Phe
			180				185						190		
Thr	Glu	Thr	Leu	Val	Lys	Leu	Ser	Val	Leu	Val	Ala	Tyr	Glu	Gly	Leu
	195						200					205			
Pro	Leu	His	Leu	Ala	Leu	Phe	Pro	Lys	Leu	Trp	Thr	Glu	Leu	Cys	Gln
	210					215					220				
Thr	Gln	Ser	Ala	Met	Ser	Lys	Asn	Cys	Ile	Lys	Leu	Leu	Cys	Glu	Asp
225					230					235				240	
Pro	Val	Phe	Ala	Glu	Tyr	Ile	Lys	Cys	Ile	Leu	Met	Asp	Glu	Arg	Thr
				245					250					255	
Phe	Leu	Asn	Asn	Asn	Ile	Val	Tyr	Thr	Phe	Met	Thr	His	Phe	Leu	Leu
			260				265						270		
Lys	Val	Gln	Ser	Gln	Val	Phe	Ser	Glu	Ala	Asn	Cys	Ala	Asn	Leu	Ile
		275					280					285			

003220.69462960

-4567/13211-

Ser	Thr	Leu	Ile	Thr	Asn	Leu	Ile	Ser	Gln	Tyr	Gln	Asn	Leu	Gln	Ser
290						295					300				
Asp	Phe	Ser	Asn	Arg	Val	Glu	Ile	Ser	Lys	Ala	Ser	Ala	Ser	Leu	Asn
305					310					315					320
Gly	Asp	Leu	Arg	Ala	Leu	Ala	Leu	Leu	Leu	Ser	Val	His	Thr	Pro	Lys
				325						330				335	
Gln	Leu	Asn	Pro	Ala	Leu	Ile	Pro	Thr	Leu	Gln	Glu	Leu	Leu	Ser	Lys
			340					345					350		
Cys	Arg	Thr	Cys	Leu	Gln	Gln	Arg	Asn	Ser	Leu	Gln	Glu	Gln	Glu	Ala
		355					360					365			
Lys	Glu	Arg	Lys	Thr	Lys	Asp	Asp	Glu	Gly	Ala	Thr	Pro	Ile	Lys	Arg
	370					375					380				
Arg	Arg	Val	Ser	Ser	Asp	Glu	Glu	His	Thr	Val	Asp	Ser	Cys	Ile	Ser
385					390					395					400
Asp	Met	Glu	Thr	Glu	Thr	Arg	Glu	Val	Leu	Thr	Pro	Thr	Ser	Thr	Ser
				405					410					415	
Asp	Asn	Glu	Thr	Arg	Asp	Ser	Ser	Ile	Ile	Asp	Pro	Gly	Thr	Glu	Gln
			420					425					430		
Asp	Leu	Pro	Ser	Pro	Glu	Asn	Ser	Ser	Val	Lys	Glu	Tyr	Arg	Met	Glu
		435					440					445			
Val	Pro	Ser	Ser	Phe	Ser	Glu	Asp	Met	Ser	Asn	Ile	Arg	Ser	Gln	His
	450					455					460				
Ala	Glu	Glu	Gln	Ser	Asn	Asn	Gly	Arg	Tyr	Asp	Asp	Cys	Lys	Glu	Phe
465					470					475					480
Lys	Asp	Leu	His	Cys	Ser	Lys	Asp	Ser	Thr	Leu	Ala	Glu	Glu	Glu	Ser
				485					490					495	
Glu	Phe	Pro	Ser	Thr	Ser	Ile	Ser	Ala	Val	Leu	Ser	Asp	Leu	Ala	Asp
			500					505					510		
Leu	Arg	Ser	Cys	Asp	Gly	Gln	Ala	Leu	Pro	Ser	Gln	Asp	Pro	Glu	Val
		515					520					525			
Ala	Leu	Ser	Leu	Ser	Cys	Gly	His	Ser	Arg	Gly	Leu	Phe	Ser	His	Met
	530					535					540				
Gln	Gln	His	Asp	Ile	Leu	Asp	Thr	Leu	Cys	Arg	Thr	Ile	Glu	Ser	Thr
545					550					555					560
Ile	His	Val	Val	Thr	Arg	Ile	Ser	Gly	Lys	Gly	Asn	Gln	Ala	Ala	Ser
				565					570					575	

<210> 11107

<211> 2532

<212> DNA

<213> Homo sapiens

<400> 11107

```

ctcagtcacc ctgtggcaga gccagctcg agccaggctg gcagcatgag cagtgcaggc 60
ccaagaccac tacccagtgg cccagcatcc cccaaacgca agctggaagc agccgaggaa 120
ccacctggtg aagaactcag caaacgggccc cgggtggcag agttgccaac cccagagctg 180
ccgagcaagg atgcctgaga ctgcagagcc cttgctccgt gagcaaagcc tgggtgcccc 240

```

000220 69462960

000220 59452950

```

agcagccacc gcagcagcag agtacaacct gcagagaagc tgatcaccgg gcagagatag 300
agcgagcatg tgtgtgtgtg tgcgcgtgtg cagaggaggg agtgggtgtg ctgtttgtgt 360
gtgcatgcat ctgttgacac tcatgattct gaatgttgcc tgggctgggg gagtacctgt 420
agcacgccag tgctgtttcc cggcctccag acacaaggct cgaggttatg gcagtgactt 480
tcagctgaga cctgttcctg caagccagct gccttgtctg aacagaacgt agtggtagga 540
ccctagctgg gattctggca tctgcctccc tagacctct tccctccctc ctcacgtcag 600
gctgtggagc aggagcacag cagtctctggc tgttgtccaa agcatgggat tctggaggca 660
gccagagccc tgctgagttc ctgctttctg acctggaggc tgagcaggcc ggagtggatg 720
gatgctgtcc agacgtagcc acctggcctc tgtttcttat tttaaaattc tctgctactg 780
ggctcagtc caggcccttc cttgggcttc tgggactgag catgaggcca tagacagatc 840
taaaaaagttt ccaccacctt acagaagtac acacagatac ctgactgggtg tggggtatgc 900
ctggtagctgt aataggagcc taagacagca cacctacctt ttcaggattt agaacctaaa 960
attagaaaaga gaatcccagc tgtcattgtt ccttccccag aagctaagag ccagcctcag 1020
agcctaccca ggagctgtga aggggcaagg gtcaaactga ctactctac caggaggaga 1080
ccaggttgca gtggcgtaag gccccctggg ttctctggcc aactccaag gcaccacagt 1140
gctgccagtg aggacagctg acaccagcc agggaaacca ttctagtctt tattctgttg 1200
gcttccaggg cctgtcctgg acttgctcagc atccagactg ccatgtcagc tatcccagta 1260
gctgagctcc aaggactcag gcagagggac tcagggatgg ggactgccag gggcagttgg 1320
caaaagtcca agtagagatt acaccagca caccattcct tcaggagca gtaggtggga 1380
ggtttgacct agagaagcca atccttgcat tcaggagtg gctgtgcct cccacctctt 1440
ccttcccact gccaaaaggc tgtgttgaga aagatgtcat gcaaaaggac gacggtggcc 1500
aactaaagca agtcttctt ccacctgtg gcctgcactt gagccacaaa gtgtgtgtgt 1560
gtgtgtgcgt gtgtggtacg tgtgtgtgtg tgtggctatg aggotgattc ctgtttggat 1620
ttttgtcctc acgtgtatca ttaagctggc ctttgggctt ttctcttct acctcccctg 1680
tgacctttcc tagcctcaga tctgttaatt cttttggccc cagccctgtc cctcactgtc 1740
ctctgtcctt ggaccagaac cctgggggtca gacctatctc ctgtagctgt ccatcacact 1800
gacaggcttc ttcttgagat atcctcaggt tttctcagcc agagagctgc ctttagagtc 1860
caactgttgt acgtatgtca ccttcactag aaatgtccca tcatcgtggg aggggagcag 1920
ggcacagggg atggtgtgtca ttcagagcat tgggttgggg gcttccctgt tccctcagcc 1980
ccagtcgaga ggaaagagaa tcgggcccact gccagaaaga gagtcaagca aacctggaag 2040
ggcaaatctg agagtgggaa ggccaaaggc cgaggcccag atttagtatt cactagcagc 2100
gccttcgggt agcaggatga ttctttttcc tgctgtctg ctgotggctc tcttccctaa 2160
ggtcagggtg gcaggaccac ctccgcctac ttctccacca tccctagcat gccagcccgt 2220
tccagatca acctgccagt ggagtcaggc agtgcactcc tggagccaag aggggaaggc 2280
agggtagaga gggatatgtc agtagcctgg agctccatgg tggcttcatg cctcccttct 2340
cccagctcag gtggccctga gggctccctc ggaacagtgc ctcaaatcct gaccaaggg 2400
ccagcatggg gaagagatgg ttgcaggcaa aatgcacttt atagagattt tctattgctg 2460
ggaagggtgt tttctccac aatttgtttg tgaatattca cttgttttat aaatgtctga 2520
cctgtcttga gt 2532

```

<210> 11108  
 <211> 2686  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS

<222> (317).. (1156)

<400> 11108

ctctcttggga	actcaatgac	tctcctgtct	tcaaaaccgt	cttggaaga	atgcagcgtt	60
tcttctctac	cctctatgaa	aactgttttc	atatacctagg	gaaggcaggc	ccttccatgc	120
agcaagactt	ctatactgtg	gaggaccttg	ctaccagct	tctcagctca	gcctttgtca	180
acttgaacaa	tattcctgac	taccgactca	gacccatgct	tgggtcttt	gtaaagcctc	240
tgggtgctctt	ctgtccccc	gagcactatg	aagccctggg	atcccccatc	ctcggacctc	300
tttcacctac	ctccatatga	ggctttctca	gaaatggcaa	gttatcaacc	aaaggagcct	360
gctgtgtgga	gaagatgagg	ctgcagatga	aaaccagag	tctcaagaga	tgctggagga	420
gcaactggtg	aggatgttaa	cccagagaagt	catggacct	atcacggtt	gctgtgtttc	480
aaagaagggt	gctgaccaca	gtagtgtctc	cccagcagat	ggagacgatg	aagaaatgat	540
ggccacagag	gtcaccacct	cagctatggc	agagcttaca	gacctgggca	aatgtctgat	600
gaagcatgag	gatgtttgta	cagcgctatt	aattacagcc	ttcaattccc	tggcctggaa	660
agatactctg	tctgtccaga	ggacaacctc	acagctctgc	tggcctctcc	tcaacaagt	720
gctgtcaggg	acactgctcg	cagatgcagt	tacgtggctt	ttcaccagtg	tgctgaaagg	780
cttacagatg	cacgggcagc	acgacgggtg	catggcttcc	ctggctccatc	tggccttcca	840
gatatacgag	gcactgcgcc	ccaggtacct	ggagataaga	gctgtaatgg	agcaaattccc	900
tgaatacag	aaggactcac	tggaccagtt	tgactgcaag	cttttaaacc	cctccctgca	960
gaaagtggct	gacaagcgcc	gaaaggacca	attcgaacgc	ctcattgctg	gttgcatagg	1020
gaaacccttg	ggagagcagt	tccgaaaaga	agttcacatt	aagaattctc	cctcactttt	1080
caaaaaaaca	aagccaatgc	tggagacgga	ggtgctggac	aatgatgggg	gtggcctggc	1140
caccatcttt	gaaccctgaa	tcaagctttt	gggcatcctt	cctcggcctt	tcttgtcatc	1200
tcttctttcc	ctttgtagcc	gatctctagg	cccttcttgc	actgccacct	cactttccac	1260
cactgtcagc	ctggaaagag	atccaggtct	ggagctggag	agaacaggcc	ctgtgcagga	1320
ccagaagtaa	ttatactaaa	gtatcaagaa	agggagttag	ggcttaaaact	attctgtcta	1380
gatgtcccag	atagttccca	ttctacttgg	agatttggct	tttccaagaa	aagctagagc	1440
agagcagccc	ttctcccaca	agccctccca	cccccgctga	gccacatacc	tgtacagaat	1500
ggtaactaag	ggtgctgtgc	ccaaccctgc	gactagcaag	gctcgcagca	agagcacagc	1560
cctcaactac	ttgtgccaga	gtttctcttg	gaccactcca	actcccactg	agcccttttg	1620
ctgctgggct	ggcaggaaac	tttccccact	ccctaagggg	catgtctggg	ttaggtgcta	1680
agtgtgaag	agaacttggg	cagttctctc	aactttgctt	tgggcaagaa	tctggtcacc	1740
tgatgggcatc	catggtacag	gctactgcta	aacttggcac	agtatcaagt	atagttacctc	1800
caaggaccag	ggctgggcag	tcttttagtgc	taacatcccc	tttagagttc	acacatcttg	1860
cccttccatg	aatgaccctt	cagtctggcc	tccccagcct	caagggtccac	tcaggcacia	1920
gagccacagt	accctagata	gtgtcacatg	acaccgttgt	catccaagga	taatacagac	1980
caactaggct	acatctgtga	tgagcagcta	gcaaagccgc	tggctttctc	ctaggactaa	2040
gtccaggtgc	cttccacaat	ctcatggtct	ttcagggtccc	tggttacttt	tctcaaaggc	2100
catttccaaa	agaatacatg	ccttcacatc	acaacctgta	ctgtgagtc	attctagagg	2160
tactgaaag	gccctgtaaa	gagaggacat	ggatacggga	cctggccctg	aggttattac	2220
tggccgtaag	gcagagttaa	tccatacaga	aaccagtgtg	tccatgtgct	ctgcacaaaa	2280
acagacctgt	tgtccatcca	gtccactgac	aagagggttt	ccccgagagc	cgaagtggac	2340
tgaagctaca	gttttttagct	ggtgcggggc	acaggcaggg	tcagattgag	aagaagcaaa	2400
gctgggggaag	cagaagttgg	gagtcttgtg	ttgctccctc	ttcctgtgtg	gtgctctggg	2460
tttctgtgga	tcgtgaaggc	gatctcaaga	gtgtttccct	ccaaacctga	tagctgccta	2520
ttcctgtctg	gttggggctg	tggaggatgt	agttgtatatt	attgcattgt	aatattttta	2580
acatcctgtg	acttcatgct	agaaattttc	tattgtttat	agaaactttt	tgtagaaaca	2640
ttaactctaa	agcacatctg	catgtcagta	aaaatctcag	tttctg		2686

09629469.072800



<210> 11109  
 <211> 280  
 <212> PRT  
 <213> Homo sapiens

<400> 11109

Met	Arg	Leu	Ser	Gln	Lys	Trp	Gln	Val	Ile	Asn	Gln	Arg	Ser	Leu	Leu
1				5					10					15	
Cys	Gly	Glu	Asp	Glu	Ala	Ala	Asp	Glu	Asn	Pro	Glu	Ser	Gln	Glu	Met
			20					25					30		
Leu	Glu	Glu	Gln	Leu	Val	Arg	Met	Leu	Thr	Arg	Glu	Val	Met	Asp	Leu
			35				40					45			
Ile	Thr	Val	Cys	Cys	Val	Ser	Lys	Lys	Gly	Ala	Asp	His	Ser	Ser	Ala
	50					55					60				
Pro	Pro	Ala	Asp	Gly	Asp	Glu	Glu	Met	Met	Ala	Thr	Glu	Val	Thr	
65					70				75					80	
Pro	Ser	Ala	Met	Ala	Glu	Leu	Thr	Asp	Leu	Gly	Lys	Cys	Leu	Met	Lys
				85					90					95	
His	Glu	Asp	Val	Cys	Thr	Ala	Leu	Leu	Ile	Thr	Ala	Phe	Asn	Ser	Leu
			100					105					110		
Ala	Trp	Lys	Asp	Thr	Leu	Ser	Cys	Gln	Arg	Thr	Thr	Ser	Gln	Leu	Cys
		115					120					125			
Trp	Pro	Leu	Leu	Lys	Gln	Val	Leu	Ser	Gly	Thr	Leu	Leu	Ala	Asp	Ala
	130					135					140				
Val	Thr	Trp	Leu	Phe	Thr	Ser	Val	Leu	Lys	Gly	Leu	Gln	Met	His	Gly
145					150					155					160
Gln	His	Asp	Gly	Cys	Met	Ala	Ser	Leu	Val	His	Leu	Ala	Phe	Gln	Ile
				165					170					175	
Tyr	Glu	Ala	Leu	Arg	Pro	Arg	Tyr	Leu	Glu	Ile	Arg	Ala	Val	Met	Glu
			180					185					190		
Gln	Ile	Pro	Glu	Ile	Gln	Lys	Asp	Ser	Leu	Asp	Gln	Phe	Asp	Cys	Lys
		195					200					205			
Leu	Leu	Asn	Pro	Ser	Leu	Gln	Lys	Val	Ala	Asp	Lys	Arg	Arg	Lys	Asp
	210					215					220				
Gln	Phe	Glu	Arg	Leu	Ile	Ala	Gly	Cys	Ile	Gly	Lys	Pro	Leu	Gly	Glu
225					230					235					240
Gln	Phe	Arg	Lys	Glu	Val	His	Ile	Lys	Asn	Leu	Pro	Ser	Leu	Phe	Lys
				245					250					255	
Lys	Thr	Lys	Pro	Met	Leu	Glu	Thr	Glu	Val	Leu	Asp	Asn	Asp	Gly	Gly
			260					265					270		
Gly	Leu	Ala	Thr	Ile	Phe	Glu	Pro								
		275					280								

<210> 11110  
 <211> 2725

003220.69462960

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (3).. (1349)

<400> 11110

```

agatgcggtt taaacagagg ctgaaagtga tocagtcott ggaggacacg gccaaagagga 60
gtgtgggtccg agctatacct gtggacattg gttttcccat tgaagagctg gaggaccttt 120
acatgggtgtt taaggccaag cacctggcta gccagtactg ggggtgcagc cgcacaatgg 180
ccggccgtcg ggaccccagc ctgccctacc tggagcagta ccggattgat gccagccagt 240
tccgggaact ctttgccagc ctgacaccct gggcctgttg ctccacaca cctctgctgg 300
cagggcgcat gttcaggctc ctggacgaaa acaaggactc gctgatcaac ttcaaggagt 360
tcgtgacagg gatgagcggg atgtaccacg gggacctgac agagaagctc aaggtgctct 420
acaagctaca ccttccccca gctctgagcc cagaggaagc cgagtcagcc ctggaggcgg 480
cccattatth cacagaggac agctcctcag aagaagcact accacaggaa gagcaagaag 540
gaagtggaa tgaggagaga ggagaggaga aggggaccag ctctccggac tatcggcact 600
accttcgaat gtgggccaaag gagaaagagg ctcagaagga gacgattaag gatcttcca 660
agatgaacca ggagcagttc attgagctgt gcaagacgtt ttacaacatg ttcagtgaag 720
accccatgga gcaggacctg taccacgcca tcgccaccgt ggccagcctc ctgctccgca 780
tcggagaggt ggggaagaag ttctcagccc gcacaggcag gaagcccagg gactgtgcca 840
ctgaggagga cgagccacca gcaccogaac tgcatcagga cgagccagg gagcttcagc 900
ccccagctgc aggagacccc caagccaaag caggcggaga cacacacctc ggaaaagccc 960
cacaggagag ccaggtggtg gtggaggggg gcagcggcga gggacagggc tcacctccc 1020
agctgctgtc tgacgatgaa accaaagacg acatgtccat gtccctctac tcggtggtca 1080
gcacgggctc cctgcaatgt gaagaccttg cagacgacac ggtgctggtg ggcggggagg 1140
cctgcagccc cacagcgcgc atcggcggca ccgtcgacac cgactggtgc atctcctttg 1200
agcagatcct ggcctccatc ctgacggagt ccgtgctggt gaacttcttt gagaagagag 1260
tggacattgg actcaagatc aaggacaaa agaaagtgga gagacagttc agcacgcca 1320
gtgaccatga gcagcctgga gtttcggct gatgcctgca gctgtgaggc ctggccaaag 1380
gtgtcatcag tgggctggc ctcatctcct cctgcctttc ctcccttctc agtttctctt 1440
taaagggtgtg cccctcctgc tctcccagga gcagttagtt gtgagtggaa agaaggctgg 1500
tgcagacca gctgccttag acagattccc tgggcctgca tctcctggcg ccggctgctt 1560
ctgggcccag gaagaggctg tggctccac ctcccttaca cctggtggga gccgcctcg 1620
caccagctgc acctgcctag cattacaggc tctcagatct gcccttgctt gcctcatacc 1680
tctgtgctcc acactgcggc caggccagct gagtccctcc atccgtggat gctttcctgc 1740
agctatgtgg tatgggggtc attcctgcct ctggcacca ggttgggggc atgtgcttgt 1800
tgggcaccaa agtgatggaa cctcagggtg ctctccggga gcctgaacct cctgactgag 1860
gaacatgggc agaacatgtt tattgcacag agtgggcgct gcgcacaggc gtggctgtac 1920
acgtgctctc agctcatcat cctttccagt aactttaaaa aaacatccct caggctcctga 1980
tatatttcct tggattcatt tcacttggct agaaattaca ctgtgtcaa tgccttaata 2040
aatccctgaa agaaataaaa accactgtgt gcaatgcctt gctgtggccc ccaaccactg 2100
cttaggcctc ccaacttctc ccaggccaa gtatggggcc ctggctgtgt tctggaagtt 2160
caagacactt agtccctcac agtgggtgga agagtgaag gtctgccagg tcagatggag 2220
acgcagaacc tgctggtgca agctgggcag gtctgacca acctgcatca ggggatgcc 2280
tgagctccac aggtcttcat gggcaggggt tgtgggtcct ggtgaaggaa gtgcatcctc 2340
aggcctgggc tgtagcaagc tgtctgcctt tgggttcaag aaccagactg tggagccaaa 2400

```

09629469.072800



Arg Lys Pro Arg Asp Cys Ala Thr Glu Glu Asp Glu Pro Pro Ala Pro  
 275 280 285  
 Glu Leu His Gln Asp Ala Ala Arg Glu Leu Gln Pro Pro Ala Ala Gly  
 290 295 300  
 Asp Pro Gln Ala Lys Ala Gly Gly Asp Thr His Leu Gly Lys Ala Pro  
 305 310 315 320  
 Gln Glu Ser Gln Val Val Val Glu Gly Gly Ser Gly Glu Gly Gln Gly  
 325 330 335  
 Ser Pro Ser Gln Leu Leu Ser Asp Asp Glu Thr Lys Asp Asp Met Ser  
 340 345 350  
 Met Ser Ser Tyr Ser Val Val Ser Thr Gly Ser Leu Gln Cys Glu Asp  
 355 360 365  
 Leu Ala Asp Asp Thr Val Leu Val Gly Gly Glu Ala Cys Ser Pro Thr  
 370 375 380  
 Ala Arg Ile Gly Gly Thr Val Asp Thr Asp Trp Cys Ile Ser Phe Glu  
 385 390 395 400  
 Gln Ile Leu Ala Ser Ile Leu Thr Glu Ser Val Leu Val Asn Phe Phe  
 405 410 415  
 Glu Lys Arg Val Asp Ile Gly Leu Lys Ile Lys Asp Gln Lys Lys Val  
 420 425 430  
 Glu Arg Gln Phe Ser Thr Ala Ser Asp His Glu Gln Pro Gly Val Ser  
 435 440 445  
 Gly

<210> 11112  
 <211> 1678  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (34).. (1158)

<400> 11112  
 agagcttttc tgtgtttctc cggacttcga gccatggcgg tgacggaagc gagcctgttg 60  
 cgccagtgcc cctgtcttct gcccagaac cggtcgaaaa ccgtgtatga gggattcatc 120  
 tcggctcagg gaagagactt ccaccttagg atagtgttgc ctgaagattt acaactgaag 180  
 aatgcaagat tattatgtag ttggcagctg agaacaatac ttagtgata ccatacgaata 240  
 gtacaacaga gaatgcagca cctcctgat ctaatgagct ttatgatgga gttgaagatg 300  
 ctttttggaag ttgccttaaa gaatagacaa gagctgtatg cactacctcc tcctccccag 360  
 ttctactcaa gccttattga agagatagga actcttggtt gggataaaact tgtgtatgca 420  
 gatacctgct tcagtaccat caagttaaaa gcagaagatg cttctggtag agagcattta 480  
 atcaactotca agttgaaggc aaagtatcct gcagaatcac cagattattt tgtggatttt 540  
 cctgttccat tttgtgcctc ctggacacct cagagctcct taataagcat ttatagtcag 600  
 tttttggcag caatagaatc actaaaggca ttctgggatg ttatggatga aatcgatgag 660  
 aagacctggg tacttgagcc agaaaaacct ccacggagtg caacagcacg cagaattgca 720

008240" 69462960

```

ttaggtaata atgtttccat aaatatagag gtagacccca ggcacccctac tatgcttcct 780
gagtgccttc ttcttggagc tgaccatgtg gtaaaacccc tgggaattaa gctgagcagg 840
aacatacatt tgtgggatcc agaaaatagt gtgttacaaa atttgaaaga tgttttagaa 900
attgattttc cagctcgtgc tatcctggaa aaatctgatt ttactatgga ttgtggaatt 960
tgttatgctt atcaacttga cgggtaccatt cctgatcaag tgtgtgataa ttctcagtgt 1020
ggacaacctt tccatcaaat atgcttatat gagtggctga gaggactact aactagtaga 1080
cagagtttta acatcatatt tgggtgaatgt ccatattgta gtaagccaat taccttaaaa 1140
atgtctggaa ggaaacactg aaataagaat acaacatttc ggtgaagagc tggaaactta 1200
aaaaattatc aaaaggaatt ttggtatcat cttcagagaa aaaataaagc aagaaatact 1260
aacatcaaaa ggacaggat gatgatgoga taataataaa catctgcgtt tgtctcttca 1320
ctaagagtaa actgggaaat ttagggccaa agtccagttg aactttctaa gtctgtgatc 1380
cccgtgctga ctgtggaagt gtatttatac caagatggag atcttgactt cttgaatata 1440
tctggactgg taaaatcttg atgaggctca taaaatgagt ttgggaattg tgtatagctg 1500
attttttggt ggaaactgtt tacttcattc aaaggttcct gagactcttg atatttctgt 1560
cttctccttg tgctttccta tggaaaaaat acatatatag tttagtgtgt tagacgtgag 1620
ttatccaagt atttattttg tgtagtgtgt aagaatgcta aataaaatgt tatacaag 1678

```

<210> 11113  
 <211> 375  
 <212> PRT  
 <213> Homo sapiens

<400> 11113

Met	Ala	Val	Thr	Glu	Ala	Ser	Leu	Leu	Arg	Gln	Cys	Pro	Leu	Leu	Leu
1				5					10					15	
Pro	Gln	Asn	Arg	Ser	Lys	Thr	Val	Tyr	Glu	Gly	Phe	Ile	Ser	Ala	Gln
			20					25					30		
Gly	Arg	Asp	Phe	His	Leu	Arg	Ile	Val	Leu	Pro	Glu	Asp	Leu	Gln	Leu
		35				40						45			
Lys	Asn	Ala	Arg	Leu	Leu	Cys	Ser	Trp	Gln	Leu	Arg	Thr	Ile	Leu	Ser
	50					55					60				
Gly	Tyr	His	Arg	Ile	Val	Gln	Gln	Arg	Met	Gln	His	Pro	Pro	Asp	Leu
65					70				75					80	
Met	Ser	Phe	Met	Met	Glu	Leu	Lys	Met	Leu	Leu	Glu	Val	Ala	Leu	Lys
				85				90						95	
Asn	Arg	Gln	Glu	Leu	Tyr	Ala	Leu	Pro	Pro	Pro	Pro	Gln	Phe	Tyr	Ser
			100					105					110		
Ser	Leu	Ile	Glu	Glu	Ile	Gly	Thr	Leu	Gly	Trp	Asp	Lys	Leu	Val	Tyr
		115				120					125				
Ala	Asp	Thr	Cys	Phe	Ser	Thr	Ile	Lys	Leu	Lys	Ala	Glu	Asp	Ala	Ser
	130					135					140				
Gly	Arg	Glu	His	Leu	Ile	Thr	Leu	Lys	Leu	Lys	Ala	Lys	Tyr	Pro	Ala
145				150					155					160	
Glu	Ser	Pro	Asp	Tyr	Phe	Val	Asp	Phe	Pro	Val	Pro	Phe	Cys	Ala	Ser
			165					170					175		
Trp	Thr	Pro	Gln	Ser	Ser	Leu	Ile	Ser	Ile	Tyr	Ser	Gln	Phe	Leu	Ala
			180					185					190		

09629469.072800

Ala Ile Glu Ser Leu Lys Ala Phe Trp Asp Val Met Asp Glu Ile Asp  
195 200 205  
Glu Lys Thr Trp Val Leu Glu Pro Glu Lys Pro Pro Arg Ser Ala Thr  
210 215 220  
Ala Arg Arg Ile Ala Leu Gly Asn Asn Val Ser Ile Asn Ile Glu Val  
225 230 235 240  
Asp Pro Arg His Pro Thr Met Leu Pro Glu Cys Phe Phe Leu Gly Ala  
245 250 255  
Asp His Val Val Lys Pro Leu Gly Ile Lys Leu Ser Arg Asn Ile His  
260 265 270  
Leu Trp Asp Pro Glu Asn Ser Val Leu Gln Asn Leu Lys Asp Val Leu  
275 280 285  
Glu Ile Asp Phe Pro Ala Arg Ala Ile Leu Glu Lys Ser Asp Phe Thr  
290 295 300  
Met Asp Cys Gly Ile Cys Tyr Ala Tyr Gln Leu Asp Gly Thr Ile Pro  
305 310 315 320  
Asp Gln Val Cys Asp Asn Ser Gln Cys Gly Gln Pro Phe His Gln Ile  
325 330 335  
Cys Leu Tyr Glu Trp Leu Arg Gly Leu Leu Thr Ser Arg Gln Ser Phe  
340 345 350  
Asn Ile Ile Phe Gly Glu Cys Pro Tyr Cys Ser Lys Pro Ile Thr Leu  
355 360 365  
Lys Met Ser Gly Arg Lys His  
370 375

<210> 11114  
<211> 1677  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (479).. (856)

<400> 11114  
atttaacgta ccaggactct acattgcagt tcaggcagtg ctggccttgg cggcatcttg 60  
gacatctcga caagtgggtg aacgtacgtt aacgggggata gtcattgaca gcggagatgg 120  
agtcacccat gttatccag tggcagaagg ttatgtaatt ggaagctgca tcaaacacat 180  
cccgattgca ggtagagata ttacgtatctt cattcaacag ctgctaaggg agagggaggt 240  
gggaatccct cctgagcagt cactggagac cgcaaaaagcc attaaggaga aatactgtta 300  
catttgcccc gatatagtca aggaatttgc caagtatgat gtggatcccc ggaagtggat 360  
caaacagtac acgggtatca atgcgatcaa ccagaagaag tttgttatag acgttgggta 420  
cgaaagattc ctgggacctg aaatattctt tcaccggag tttgccaacc cagactttat 480  
ggagtccatc tcagatgttg ttgatgaagt aatacagaac tgccccatcg atgtgcggcg 540  
cccgctgtat aagaatgtcg tactctcagg aggcctccacc atgttcaggg atttcggacg 600  
ccgactgcag agggatttga agagagtggg ggatgctagg ctgaggctca gcgaggagct 660  
cagcggcggg aggatcaagc cgaagcctgt ggagggtccag gtggtcacgc atcacatgca 720

008220 69452350

```

gcgctacgcc gtgtggttcg gaggcctccat gctggcctcg actcccaggt tctttcaggt 780
ctgccacacc aagaaggact atgaagagta cgggcccagc atctgccgcc acaaccccgt 840
ctttggagtc atgtcctagt gtctgcctga acgcgtcgtt cgatggtgtc acgttgggga 900
acaagtgtcc ttcagaaccc agagaaggcc gccgttctgt aaatagcgac gtcggtgttg 960
ctgccccagca gcgtgcttgc attgccggtg catgaggcgc ggcgcgggcc cttcagtaaa 1020
agccatctat ccgtgtgcgc accgctgtct gccagcctcc tccttctccc gccctcctca 1080
ccctcgctct ccctcctcct cctcctccga gctgctagct gacaaaataca attctgaagg 1140
aatccaaatg tgactttgaa aattgttaga gaaaacaaca ttagaaaatg gcgcaaaatc 1200
gttaggtccc aggagagaat gtgggggcgc aaaccctttt cctcccagcc tttttttgta 1260
aataaaatgt ttaaacttga aatacaaatc gatgtttata tttcctatca ttttgtatgt 1320
tatggtatgt ggtacaactg gctgatacta agcacgaata gatattgatg ttatggagtg 1380
ctgtaatcca aagtttttaa ttgtgaggca tgttctgata tgtttatagg caaacaataa 1440
aaacagcaaa cttttttgcc acatgtttgc tagaaaatga ttatacttta ttggagtgc 1500
atgaagtttg aacactaaac agtaatgtat gagaattact acagatacat gtatctttta 1560
gttttttttg tttgaacttt ctggagctgt tttatagaag atgatggttt gttgtcgggtg 1620
agtgttggtat gaaatacttc cttgcaccat tgtaataaaa gctgttagaa tatttgt 1677

```

<210> 11115  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<400> 11115

Met	Glu	Ser	Ile	Ser	Asp	Val	Val	Asp	Glu	Val	Ile	Gln	Asn	Cys	Pro
1				5				10						15	
Ile	Asp	Val	Arg	Arg	Pro	Leu	Tyr	Lys	Asn	Val	Val	Leu	Ser	Gly	Gly
			20					25					30		
Ser	Thr	Met	Phe	Arg	Asp	Phe	Gly	Arg	Arg	Leu	Gln	Arg	Asp	Leu	Lys
		35					40					45			
Arg	Val	Val	Asp	Ala	Arg	Leu	Arg	Leu	Ser	Glu	Glu	Leu	Ser	Gly	Gly
		50				55					60				
Arg	Ile	Lys	Pro	Lys	Pro	Val	Glu	Val	Gln	Val	Val	Thr	His	His	Met
		65			70				75						80
Gln	Arg	Tyr	Ala	Val	Trp	Phe	Gly	Gly	Ser	Met	Leu	Ala	Ser	Thr	Pro
			85						90					95	
Glu	Phe	Phe	Gln	Val	Cys	His	Thr	Lys	Lys	Asp	Tyr	Glu	Glu	Tyr	Gly
			100					105					110		
Pro	Ser	Ile	Cys	Arg	His	Asn	Pro	Val	Phe	Gly	Val	Met	Ser		
		115					120					125			

<210> 11116  
 <211> 1552  
 <212> DNA  
 <213> Homo sapiens

<220>

003220' 59462960

<221> CDS  
<222> (160).. (822)

<400> 11116

```

atcgacgggc tgcgggagct caaacgcctc aaggtgctgc ggcotcaagag caacctaagc 60
aagctgccac aggtgggtcac agatgtgggc gtgcacctgc agaagctgtc catcaacaat 120
gagggcacca agctcatcgt cctcaacagc ctcaagaaga tggcgaacct gactgagctg 180
gagctgatcc gctgtgacct ggagcgcata cccactcca tcttcagcct ccacaacctg 240
caggagattg acctcaagga cgacaacctc aagaccatcg aggagatcat cagcttccag 300
cacctgcacc gcctcacctg ccttaagctg tggtaacaacc acatcgcccta catccccatc 360
cagatcggca acctaccaa cctggagcgc ctctacctga accgcaacaa gatcgagaag 420
atccccaccc agctcttcta ctgccgcaag ctgcgctacc tggacctcag ccacaacaac 480
ctgaccttcc tccctgccga catcggcctc ctgcagaacc tccagaacct agccatcacg 540
gccaaaccgga tcgagacgct ccctccggag ctcttccagt gccggaagct gcgggccctg 600
cacctgggca acaacgtgct gcagtcactg ccctccaggg tggcgagct gaccaacctg 660
acgcagatcg agctgcgggg caaccggctg gagtgcctgc ctgtggagct gggcgagtgc 720
ccactgctca agcgcagcgg cttggtggtg gaggaggacc tgttcaaac actgccaccc 780
gaggtgaagg agcggctgtg gagggctgac aaggagcagg cctgagcgag gccggcccag 840
cacagcaagc agcaggaccg ctgccagtc ctcaggcccg gaggggcagg cctagcttct 900
cccagaactc ccggacagcc aggacagcct cgtggctggg caggagcctg gggccgcttg 960
tgagttaggc cagagcgaga ggacagtatc tgtggggctg gccccttttc tccctctgag 1020
actcacgtcc cccagggcaa gtgcttgttg aggagagcaa gtctcaagag cgcagtattt 1080
ggataatcag ggtctcctcc ctggaggcca gctctgcccc aggggctgag ctgccaccag 1140
aggtcctggg acctcactt tagttcttgg tatttatttt tctocatctc ccacctcctt 1200
catccagata acttatacat tcccaagaaa gttcagccca gatggaaggt gttcagggaa 1260
aggtgggctg ctttttcccc ttgtccttat ttagcgatgc cgcggggcat ttaacaccca 1320
cctggacttc agcagagtgg tccggggcga accagccatg ggacggtcac ccagcagtgc 1380
cgggctgggc tctgcggtgc ggtccacggg agagcaggcc tccagctgga aaggccaggc 1440
ctggagcttg cctcttcagt atttgtggca gttttagttt tttgtttttt ttttttaatc 1500
aaaaaacaat ttttttaaaa aaaaagcttt gaaaatggat ggtttgggca tt 1552

```

<210> 11117  
<211> 221  
<212> PRT  
<213> Homo sapiens

<400> 11117

```

Met Ala Asn Leu Thr Glu Leu Glu Leu Ile Arg Cys Asp Leu Glu Arg
  1             5             10             15
Ile Pro His Ser Ile Phe Ser Leu His Asn Leu Gln Glu Ile Asp Leu
          20             25             30
Lys Asp Asp Asn Leu Lys Thr Ile Glu Glu Ile Ile Ser Phe Gln His
          35             40             45
Leu His Arg Leu Thr Cys Leu Lys Leu Trp Tyr Asn His Ile Ala Tyr
          50             55             60
Ile Pro Ile Gln Ile Gly Asn Leu Thr Asn Leu Glu Arg Leu Tyr Leu
          65             70             75             80

```

000220.69462960



Asn	Arg	Asn	Lys	Ile	Glu	Lys	Ile	Pro	Thr	Gln	Leu	Phe	Tyr	Cys	Arg
				85					90					95	
Lys	Leu	Arg	Tyr	Leu	Asp	Leu	Ser	His	Asn	Asn	Leu	Thr	Phe	Leu	Pro
			100					105					110		
Ala	Asp	Ile	Gly	Leu	Leu	Gln	Asn	Leu	Gln	Asn	Leu	Ala	Ile	Thr	Ala
		115					120					125			
Asn	Arg	Ile	Glu	Thr	Leu	Pro	Pro	Glu	Leu	Phe	Gln	Cys	Arg	Lys	Leu
	130					135					140				
Arg	Ala	Leu	His	Leu	Gly	Asn	Asn	Val	Leu	Gln	Ser	Leu	Pro	Ser	Arg
145					150					155					160
Val	Gly	Glu	Leu	Thr	Asn	Leu	Thr	Gln	Ile	Glu	Leu	Arg	Gly	Asn	Arg
				165				170						175	
Leu	Glu	Cys	Leu	Pro	Val	Glu	Leu	Gly	Glu	Cys	Pro	Leu	Leu	Lys	Arg
		180						185					190		
Ser	Gly	Leu	Val	Val	Glu	Glu	Asp	Leu	Phe	Asn	Thr	Leu	Pro	Pro	Glu
	195						200					205			
Val	Lys	Glu	Arg	Leu	Trp	Arg	Ala	Asp	Lys	Glu	Gln	Ala			
	210					215					220				

<210> 11118  
 <211> 1728  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (259).. (693)

<400> 11118  
 actgtatcac ctataggggtg taattcctcc gatcccgctg acttcgaacc aatcccatct 60  
 ttttctgggt ttccgtaga ttctccaaa accttggtgc ttgactttga gacagagggt 120  
 gaacgaaact cacctaattcc caggagtgtt aggatccctt ctctaacaat ttgaaaact 180  
 ggacttacag aaaatgttga ccgtggcttg gggggcctag agggaacaca ccaggccctt 240  
 gacctgttag caggaggaat gatgcctgag gaagtaaaag aatcttccca attagacaaa 300  
 caagagtcac tcggattgga attaaaaatt aattctgcag gocttgggcc atctccttgc 360  
 cttccagacc ttgttgactt tgtcacacgg acctctggag ttcaaaaaga taaactgtgt 420  
 totccactct ctgagccagg tgacccttct aaatgtagtt ccctggagtt ggggccatta 480  
 cagctagaaa tatcgaatgc atccaccaca gaggtggcaa ttctgcaagt agatgatgac 540  
 agtggcgacc ctctgaattt ggttaaagct ccagtgtcaa ggtcccctcc aaggagcag 600  
 gtaattgaag acaatatggt ccctcaggga atgcctgaac aggaaactac agttggtgcc 660  
 atccaggacc acacagaatc cagtgttcac aactaagaat aaatacctag agctacttgt 720  
 gagtgaatca ttggcttcta gaaatcagat gccagatga tccaaggcta gtttgttatc 780  
 tcatctggaa cctacaccaa gagatgcagt cagcatctta aagtaaatgt tcatggaagc 840  
 taaaaaattt acctccttct cttttccctt tccccttaaa acaccagaca aatcgataac 900  
 aacttatata taatatatat atatctgtaa aaatgtatatt tggttaatttt tttggccaat 960  
 ttattttctc ccactttgtc attaaaatca catgtctaac tggctcacca catagtgtgc 1020  
 tttgattgta ttttggcttt gactctgcca tttctgaaat gtggggggagg atggaggcag 1080

0022/0 69462960

```

ctgacctctc cagttgctgt gttgtattcc tacccaattt cctgggcagt tgatgcatct 1140
ctgggaaaaa caccagaaag cttgctgaaa tggaaaactt ggaagaattg ttcattctctt 1200
aggcttccat ttggatgggc ctgccttaac attgtttgaa atgcagcgtg agtagctctt 1260
ttgtttactg tttacacccc ttattggcat gtcaactcct gtacttccct tactctgttg 1320
cctttcttga gatgcattgt cctgctaacc cacaaacctg tttggaaata aacatggaag 1380
aatatctggc aggcttactt ttagaagacg acaaatcggt aaggcttatt catggttcat 1440
tgccaggagc agatatgctt ttgagatcac ttttattttt gaaatggcct ttgttcattg 1500
tattgtgatc caataacact ttgtattaaa ttgttttagca gccatttgtg ttgtgaaggg 1560
gtagaagatc tctgaaactt gtcttgagat tgaactcatt ccctgttcca caaacccata 1620
tgtatccttt cctctacctc ctcccttccc aattaatttc aaccatagta cgatgttttg 1680
ggttgtatat tttgttaaaa agattaaaga atttatgagt tggcttgg 1728

```

<210> 11119  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 11119

Met	Met	Pro	Glu	Glu	Val	Lys	Glu	Ser	Ser	Gln	Leu	Asp	Lys	Gln	Glu
1				5					10					15	
Ser	Leu	Gly	Leu	Glu	Leu	Lys	Ile	Asn	Ser	Ala	Gly	Leu	Gly	Pro	Ser
			20					25					30		
Pro	Cys	Leu	Pro	Asp	Leu	Val	Asp	Phe	Val	Thr	Arg	Thr	Ser	Gly	Val
			35				40					45			
Gln	Lys	Asp	Lys	Leu	Cys	Ser	Pro	Leu	Ser	Glu	Pro	Gly	Asp	Pro	Ser
			50			55					60				
Lys	Cys	Ser	Ser	Leu	Glu	Leu	Gly	Pro	Leu	Gln	Leu	Glu	Ile	Ser	Asn
					70					75				80	
Ala	Ser	Thr	Thr	Glu	Val	Ala	Ile	Leu	Gln	Val	Asp	Asp	Asp	Ser	Gly
					85				90					95	
Asp	Pro	Leu	Asn	Leu	Val	Lys	Ala	Pro	Val	Ser	Arg	Ser	Pro	Pro	Arg
			100					105					110		
Glu	Gln	Val	Ile	Glu	Asp	Asn	Met	Val	Pro	Gln	Gly	Met	Pro	Glu	Gln
			115				120					125			
Glu	Thr	Thr	Val	Gly	Ala	Ile	Gln	Asp	His	Thr	Glu	Ser	Ser	Val	His
			130				135					140			

Asn  
 145

<210> 11120  
 <211> 1518  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS





ttgcagtgag atcgccaccac tgcactccaa cctgggtgac agagcaagat tctgtctc 718

<210> 11123  
<211> 1637  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (221).. (1636)

<400> 11123  
ctataactta ttacagtcac ccagccctgc tgtaaaatat gaagctgctg ggacattagt 60  
gacactctct agtgcaccaa ctgcaatcaa ggctgctgct cagtgttaca ttgatttaat 120  
tattaaggag agcgacaaca atgtaaaact catagttttg gatcgcttga tagaattaaa 180  
agagcatcct gctcatgaac gagtactaca ggatctgggt atggatatcc taagagtatt 240  
gagcacacca gacttagaag tacgaaagaa aactctgcag ttagcaactgg atcttgtctc 300  
ttctagaaat gttgaaaagc tggttattgt cctgaagaag gaagtgataa aaacaaataa 360  
tgtgtctgag catgaagata ctgacaaata cagacaactc ctagtgcgaa cattgcattc 420  
ctgttctgtc cgatttccag atatggctgc aaatgttatt cctgtgttaa tggattttct 480  
cagtgcacac aacgaagcag cagctgctga tgtcttggag tttgttcgtg aagccattca 540  
gcgctttgat aacctgagaa tgcttattgt tgagaagatg cttgaagtct ttcattgctat 600  
taaattctgtc aagattttacc gaggagcatt atggatcctg ggagaatact gtagtaccac 660  
ggaagacatt cagagtgtga tgactgagat ccgcaggtcc cttggagaga tcccaattgt 720  
agagtcagaa ataaagaaag aagctgggtga attaaaacct gaagaagaaa tacctgtagg 780  
gccagttcag aaattgggtta ctgaaatggg tacctatgca actcagagtg cccttagcag 840  
ttctagacct accaagaaag aggaagacag acctcccttg agaggattcc ttctggatgg 900  
agatttcttt gttgctgcct cccttgccac aactctgacc aagattgcat tgcgctatgt 960  
agcttttggt caggagaaga aaaagcaaaa ttcttttgtt gctgaggcta tgttgctcat 1020  
ggctactatc ctgcatttgg gaaaatcctc tcttcctaag aagccaatta ctgatgatga 1080  
tgtggatcga atttccctgt gcctcaaggt cttgtctgaa tgttcacctt taatgaatga 1140  
cattttcaat aaggaatgca gacagtcctt ttctcacatg ttatctgcta aactagaaga 1200  
agagaaatta tcccaaaaga aagaatctga aaagaggaat gtgacagtac agcctgatga 1260  
ccccatttcc ttcatgcaac taactgctaa gaatgaaatg aactgcaagg aagatcagtt 1320  
tcagctgagt ttactggcag caatgggtta cacacagagg aaagaggcag cagatccctt 1380  
agcatctaaa cttaacaagg tcacccaatt gacaggtttc tcagatcctg tatatgcaga 1440  
agcttacgtt catgtcaacc aatatgatat tgtcctggat gtacttggtg tgaaccaaac 1500  
cagtataact ttgcagaatt gcacattaga actagctaca ctaggggatc tgaacttgtt 1560  
ggaaaagccg tctcctttga ctcttgctcc tcatgacttc gcaaatatta aagctaacgt 1620  
caaagtagca tcaacag 1637

<210> 11124  
<211> 472  
<212> PRT  
<213> Homo sapiens

000220 59462960

<400> 11124

Met	Asp	Ile	Leu	Arg	Val	Leu	Ser	Thr	Pro	Asp	Leu	Glu	Val	Arg	Lys
1				5					10					15	
Lys	Thr	Leu	Gln	Leu	Ala	Leu	Asp	Leu	Val	Ser	Ser	Arg	Asn	Val	Glu
		20						25					30		
Lys	Leu	Val	Ile	Val	Leu	Lys	Lys	Glu	Val	Ile	Lys	Thr	Asn	Asn	Val
		35					40					45			
Ser	Glu	His	Glu	Asp	Thr	Asp	Lys	Tyr	Arg	Gln	Leu	Leu	Val	Arg	Thr
	50					55					60				
Leu	His	Ser	Cys	Ser	Val	Arg	Phe	Pro	Asp	Met	Ala	Ala	Asn	Val	Ile
65					70					75					80
Pro	Val	Leu	Met	Glu	Phe	Leu	Ser	Asp	Asn	Asn	Glu	Ala	Ala	Ala	Ala
				85					90					95	
Asp	Val	Leu	Glu	Phe	Val	Arg	Glu	Ala	Ile	Gln	Arg	Phe	Asp	Asn	Leu
		100						105					110		
Arg	Met	Leu	Ile	Val	Glu	Lys	Met	Leu	Glu	Val	Phe	His	Ala	Ile	Lys
	115						120					125			
Ser	Val	Lys	Ile	Tyr	Arg	Gly	Ala	Leu	Trp	Ile	Leu	Gly	Glu	Tyr	Cys
	130					135					140				
Ser	Thr	Lys	Glu	Asp	Ile	Gln	Ser	Val	Met	Thr	Glu	Ile	Arg	Arg	Ser
145					150					155					160
Leu	Gly	Glu	Ile	Pro	Ile	Val	Glu	Ser	Glu	Ile	Lys	Lys	Glu	Ala	Gly
			165						170					175	
Glu	Leu	Lys	Pro	Glu	Glu	Glu	Ile	Pro	Val	Gly	Pro	Val	Gln	Lys	Leu
		180						185					190		
Val	Thr	Glu	Met	Gly	Thr	Tyr	Ala	Thr	Gln	Ser	Ala	Leu	Ser	Ser	Ser
	195						200					205			
Arg	Pro	Thr	Lys	Lys	Glu	Glu	Asp	Arg	Pro	Pro	Leu	Arg	Gly	Phe	Leu
	210					215					220				
Leu	Asp	Gly	Asp	Phe	Phe	Val	Ala	Ala	Ser	Leu	Ala	Thr	Thr	Leu	Thr
225					230					235					240
Lys	Ile	Ala	Leu	Arg	Tyr	Val	Ala	Leu	Val	Gln	Glu	Lys	Lys	Lys	Gln
				245					250					255	
Asn	Ser	Phe	Val	Ala	Glu	Ala	Met	Leu	Leu	Met	Ala	Thr	Ile	Leu	His
		260					265						270		
Leu	Gly	Lys	Ser	Ser	Leu	Pro	Lys	Lys	Pro	Ile	Thr	Asp	Asp	Asp	Val
	275					280						285			
Asp	Arg	Ile	Ser	Leu	Cys	Leu	Lys	Val	Leu	Ser	Glu	Cys	Ser	Pro	Leu
	290					295					300				
Met	Asn	Asp	Ile	Phe	Asn	Lys	Glu	Cys	Arg	Gln	Ser	Leu	Ser	His	Met
305					310					315					320
Leu	Ser	Ala	Lys	Leu	Glu	Glu	Glu	Lys	Leu	Ser	Gln	Lys	Lys	Glu	Ser
				325					330					335	
Glu	Lys	Arg	Asn	Val	Thr	Val	Gln	Pro	Asp	Asp	Pro	Ile	Ser	Phe	Met
			340					345					350		
Gln	Leu	Thr	Ala	Lys	Asn	Glu	Met	Asn	Cys	Lys	Glu	Asp	Gln	Phe	Gln
	355						360					365			
Leu	Ser	Leu	Leu	Ala	Ala	Met	Gly	Asn	Thr	Gln	Arg	Lys	Glu	Ala	Ala

008220.5945960

370	375	380
Asp Pro Leu Ala Ser Lys Leu Asn Lys Val Thr Gln Leu Thr Gly Phe		
385	390	395
Ser Asp Pro Val Tyr Ala Glu Ala Tyr Val His Val Asn Gln Tyr Asp		400
	405	410
Ile Val Leu Asp Val Leu Val Val Asn Gln Thr Ser Asp Thr Leu Gln		415
	420	425
Asn Cys Thr Leu Glu Leu Ala Thr Leu Gly Asp Leu Lys Leu Val Glu		430
	435	440
Lys Pro Ser Pro Leu Thr Leu Ala Pro His Asp Phe Ala Asn Ile Lys		445
	450	455
Ala Asn Val Lys Val Ala Ser Thr		460
465	470	

<210> 11125  
<211> 990  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (584).. (988)

<400> 11125  
tattgacgcc atattggggc cggcggcgagg tgggagaggt ctacgaggga ggggaagcgg 60  
ttggacgtgt tcgcttgggt tcctgctgcg gcagctacct cgcaatctct ctgcatcgat 120  
cgccgctcgc aagctactga ccgtactcgg gcgtattagg agccgcgttc cagcctcaca 180  
ccccacggtg ctgttttcga cttcagaaag gatctagtct cagcacagga gcgcctcagg 240  
cgcggcgcaa agctcgagcg gacggcgagg gcggccggag cctctctcgg gggagccgcg 300  
cctgaggagg cggaagaacc cccctgacgc gactggcgtg tgcttctgcc cgccaccgcc 360  
cctcccgtct tcaccggggc cgtccctggc cactgcccct gccgcggagg cagcggcggc 420  
agcggctctc ctttccacag ccggcgctcc gcgaccgct tggctcctga gcccgctcggg 480  
taggctctcc tcgagttccc gctcttcacc ccttccctca cctcttctt tcgtcaccgc 540  
tccccgaccc caccgagcc cggcgcctca gctgcccccg gccatggcgt gcggagccac 600  
tctgaaaagg actctggatt tcgaccgct gttgagcccg gcgtccccga agcgcaggcg 660  
atgtgcgcca ttgtcggcgc ccacctggc cgctgcctcc ccgttgctcg gcggccggcg 720  
caccgcccgc tccttctcgg ctgcggcgcc ctcgccgcag aagtatctcc gaatggagcc 780  
atcccccttc ggcgacgtct cctccgcct caccacagaa caaattctgt acaacataaa 840  
acaagagtat aaacgaatgc agaagagaag acatttagaa acgagtttcc aacagacaga 900  
tccgtgttgt acttctgatg cacagccaca tgcatttctc ctcaagtggac cagcttcacc 960  
agggaactca tctgcagcat cctcaccatt 990

<210> 11126  
<211> 135  
<212> PRT  
<213> Homo sapiens

00629469.072800

<400> 11126

Met	Ala	Cys	Gly	Ala	Thr	Leu	Lys	Arg	Thr	Leu	Asp	Phe	Asp	Pro	Leu
1				5					10					15	
Leu	Ser	Pro	Ala	Ser	Pro	Lys	Arg	Arg	Arg	Cys	Ala	Pro	Leu	Ser	Ala
			20					25					30		
Pro	Thr	Ser	Ala	Ala	Ala	Ser	Pro	Leu	Ser	Ala	Ala	Ala	Ala	Thr	Ala
			35				40					45			
Ala	Ser	Phe	Ser	Ala	Ala	Ala	Ala	Ser	Pro	Gln	Lys	Tyr	Leu	Arg	Met
	50					55				60					
Glu	Pro	Ser	Pro	Phe	Gly	Asp	Val	Ser	Ser	Arg	Leu	Thr	Thr	Glu	Gln
65					70					75				80	
Ile	Leu	Tyr	Asn	Ile	Lys	Gln	Glu	Tyr	Lys	Arg	Met	Gln	Lys	Arg	Arg
			85						90				95		
His	Leu	Glu	Thr	Ser	Phe	Gln	Gln	Thr	Asp	Pro	Cys	Cys	Thr	Ser	Asp
			100					105					110		
Ala	Gln	Pro	His	Ala	Phe	Leu	Leu	Ser	Gly	Pro	Ala	Ser	Pro	Gly	Thr
		115				120						125			
Ser	Ser	Ala	Ala	Ser	Ser	Pro									
	130					135									

<210> 11127

<211> 1299

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (35).. (988)

<400> 11127

ttactcccct	attgactaca	gtgatggttc	tggaatgaat	ttgttgacaga	tacaggataa	60
agtctgggtcc	caggcttgcc	ttggtgcctg	tgcacctcat	ttagaggaga	agcttagccc	120
accagtacca	tcatgctcag	ttgtgggagc	catttcttcc	tactacgtcc	agcgctacgg	180
atttcctcca	ggatgcaaag	tggtggcctt	cactggggac	aaccagcgt	cgctggcagg	240
catgagactg	gaggaagggtg	acattgcggt	cagcctgggc	accagtgaca	ccctgtttct	300
ctggctccaa	gagcccatgc	ctgccctgga	aggccacatc	ttctgcaacc	cggttgactc	360
ccagcactac	atggcactcc	tgtgctttaa	aaatggctcc	ctcatgagag	agaagatccg	420
caacgagtct	gtatcccgtt	cctggagcga	tttctctaag	gcactgcagt	ccacagagat	480
gggcaacggt	ggaaacctgg	gtttttat	tgatgtaatg	gagatcacc	ctgaaattat	540
tggaagtc	aggtttaaca	cagaaaacca	caagggtgca	gcattccctg	gggatgtgga	600
ggttcgagca	ctaattgaag	gacaattcat	ggccaagagg	attcacgcag	aaggcctggg	660
ctatcgagtc	atgtccaaga	caaagatttt	ggccacagga	ggagcatctc	acaatagaga	720
aatcttacag	gtgcttgag	atgtgtttga	tgccccgggtg	tatgttatag	acactgccaa	780
ctcggcctgt	gtgggttctg	cataccgagc	ttttcatggt	cttgacaggtg	gaacagatgt	840
gcccttttca	gaggttgtga	agttagctcc	aaatcccaga	ctagctgcta	ccccaaagccc	900
gggagcttct	caggtctacg	aggcccttct	ccccagttat	gccaaactcg	agcagagaat	960



```

cttgtctcag acccgggggc ctccggagtg aacaggcatc cctgttgccc ctgcctgccc 1020
agatttactg accccatttg tcgacatggc occagacagg agggatccac ttctctgttc 1080
tgaacagctc ttcttgcccc tactgactoc ttggagtgtc caggaccatc ttaaagccgc 1140
cctcagcaca tctgcatgaa gatagatagg cactcctgtc cctgtgcccg tgtgccccag 1200
ggcaggaaaag catctctctt ttctgtctt ttatcccagg aggcaggaca aactgagac 1260
tgggatatgt ccaataaaaa ctatgacttt tccccttgc 1299

```

<210> 11128  
 <211> 318  
 <212> PRT  
 <213> Homo sapiens

<400> 11128

Met	Asn	Leu	Leu	Gln	Ile	Gln	Asp	Lys	Val	Trp	Ser	Gln	Ala	Cys	Leu
1				5					10					15	
Gly	Ala	Cys	Ala	Pro	His	Leu	Glu	Glu	Lys	Leu	Ser	Pro	Pro	Val	Pro
			20					25					30		
Ser	Cys	Ser	Val	Val	Gly	Ala	Ile	Ser	Ser	Tyr	Tyr	Val	Gln	Arg	Tyr
		35					40					45			
Gly	Phe	Pro	Pro	Gly	Cys	Lys	Val	Val	Ala	Phe	Thr	Gly	Asp	Asn	Pro
	50					55					60				
Ala	Ser	Leu	Ala	Gly	Met	Arg	Leu	Glu	Glu	Gly	Asp	Ile	Ala	Val	Ser
	65				70					75					80
Leu	Gly	Thr	Ser	Asp	Thr	Leu	Phe	Leu	Trp	Leu	Gln	Glu	Pro	Met	Pro
				85					90					95	
Ala	Leu	Glu	Gly	His	Ile	Phe	Cys	Asn	Pro	Val	Asp	Ser	Gln	His	Tyr
			100					105					110		
Met	Ala	Leu	Leu	Cys	Phe	Lys	Asn	Gly	Ser	Leu	Met	Arg	Glu	Lys	Ile
		115					120					125			
Arg	Asn	Glu	Ser	Val	Ser	Arg	Ser	Trp	Ser	Asp	Phe	Ser	Lys	Ala	Leu
	130					135					140				
Gln	Ser	Thr	Glu	Met	Gly	Asn	Gly	Gly	Asn	Leu	Gly	Phe	Tyr	Phe	Asp
	145				150					155					160
Val	Met	Glu	Ile	Thr	Pro	Glu	Ile	Ile	Gly	Arg	His	Arg	Phe	Asn	Thr
				165					170					175	
Glu	Asn	His	Lys	Val	Ala	Ala	Phe	Pro	Gly	Asp	Val	Glu	Val	Arg	Ala
			180					185					190		
Leu	Ile	Glu	Gly	Gln	Phe	Met	Ala	Lys	Arg	Ile	His	Ala	Glu	Gly	Leu
		195					200					205			
Gly	Tyr	Arg	Val	Met	Ser	Lys	Thr	Lys	Ile	Leu	Ala	Thr	Gly	Gly	Ala
	210					215					220				
Ser	His	Asn	Arg	Glu	Ile	Leu	Gln	Val	Leu	Ala	Asp	Val	Phe	Asp	Ala
	225				230					235					240
Pro	Val	Tyr	Val	Ile	Asp	Thr	Ala	Asn	Ser	Ala	Cys	Val	Gly	Ser	Ala
				245					250					255	
Tyr	Arg	Ala	Phe	His	Gly	Leu	Ala	Gly	Thr	Asp	Val	Pro	Phe	Ser	
			260					265				270			

008220"69462960

-4587/13211-

Glu Val Val Lys Leu Ala Pro Asn Pro Arg Leu Ala Ala Thr Pro Ser  
275 280 285  
Pro Gly Ala Ser Gln Val Tyr Glu Ala Leu Leu Pro Gln Tyr Ala Lys  
290 295 300  
Leu Glu Gln Arg Ile Leu Ser Gln Thr Arg Gly Pro Pro Glu  
305 310 315

<210> 11129  
<211> 1291  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (93).. (788)

<400> 11129  
ctattaaaac ctctcctgcc aaggcccggt ctcccatcaa cagaagaggc tctgtctcct 60  
ccgtctctcc caagccacct tcactcttca agatgtogat tagaaactgg gtgacccgaa 120  
caccttcctc atcaccaccc atcactccac ctgcttcgga gaccaagatc atgtcaccga 180  
gaaaagccct tactcctgtg agccagaagt catcccaagc agaggcttgc tctgagtcta 240  
gaaatagagt aaagaggagg ctagactcaa gctgtctgga gagtgtgaaa caaaagtgtg 300  
tgaagagttg taactgtgtg actgagcttg atggccaagt tgaaaatctt catttggatc 360  
tgtgctgcct tgctggtaac caggaagacc ttagtaagga ctctctaggt cctaccaa 420  
caagcaaaat tgaaggagct ggtaccagta totcagagcc tccgtctcct atcagtcctg 480  
atgcttcaga aagctgtgga acgctacctc ttcttttgag accttgtgga gaagggtctg 540  
aaatggtagg caaagagaat agttccccag agaataaaaa ctggttgttg gccatggcag 600  
ccaaacggaa ggctgagaat ccatctccac gaagtccgtc atcccagaca cccaattcca 660  
ggagacagag cggaaagaca ttgccaagcc cggtcaccat caccgccagc tccatgagga 720  
aaatctgcac atacttccat agaaagtccc aggaggactt ctgtggtcct gaacactcaa 780  
cagaattata gattctaata tgagttagtt actgagcttt ggtccactaa aacaagctga 840  
gctttggtcc actaaaacaa gatgaaaaat acaagagtga ctctataact ctggtcttta 900  
agaaagctgc cttttcattt ttagacaaaa tcttttcaac gctgaaatgt acctaatctg 960  
gttctactac cataatgtat atgcagcttc ccgaggatga atgctgtgtt taaatttcat 1020  
aaagtaaatt tgtcactcta gcattttgaa tgaatagtct tcaactttta aattattcat 1080  
cttctctata ataatgacat ccagttcat ggaggcaaaa aaaacaagtt tcttgttatc 1140  
ctgaaacttt ctatgctcag tggaaagtat ctgccagcca cagcatgagg cctgtgaagg 1200  
ctgactgaga aatcctctgc tgaagacccc tggttctgtt ctgcctccaa catgtataat 1260  
tttatttgaa atacataatc ttttactat g 1291

<210> 11130  
<211> 232  
<212> PRT  
<213> Homo sapiens

<400> 11130

09629469.072800

-4588/13211-

Met Ser Ile Arg Asn Trp Val Thr Arg Thr Pro Ser Ser Ser Pro Pro  
1 5 10 15  
Ile Thr Pro Pro Ala Ser Glu Thr Lys Ile Met Ser Pro Arg Lys Ala  
20 25 30  
Leu Thr Pro Val Ser Gln Lys Ser Ser Gln Ala Glu Ala Cys Ser Glu  
35 40 45  
Ser Arg Asn Arg Val Lys Arg Arg Leu Asp Ser Ser Cys Leu Glu Ser  
50 55 60  
Val Lys Gln Lys Cys Val Lys Ser Cys Asn Cys Val Thr Glu Leu Asp  
65 70 75 80  
Gly Gln Val Glu Asn Leu His Leu Asp Leu Cys Cys Leu Ala Gly Asn  
85 90 95  
Gln Glu Asp Leu Ser Lys Asp Ser Leu Gly Pro Thr Lys Ser Ser Lys  
100 105 110  
Ile Glu Gly Ala Gly Thr Ser Ile Ser Glu Pro Pro Ser Pro Ile Ser  
115 120 125  
Pro Tyr Ala Ser Glu Ser Cys Gly Thr Leu Pro Leu Pro Leu Arg Pro  
130 135 140  
Cys Gly Glu Gly Ser Glu Met Val Gly Lys Glu Asn Ser Ser Pro Glu  
145 150 155 160  
Asn Lys Asn Trp Leu Leu Ala Met Ala Ala Lys Arg Lys Ala Glu Asn  
165 170 175  
Pro Ser Pro Arg Ser Pro Ser Ser Gln Thr Pro Asn Ser Arg Arg Gln  
180 185 190  
Ser Gly Lys Thr Leu Pro Ser Pro Val Thr Ile Thr Pro Ser Ser Met  
195 200 205  
Arg Lys Ile Cys Thr Tyr Phe His Arg Lys Ser Gln Glu Asp Phe Cys  
210 215 220  
Gly Pro Glu His Ser Thr Glu Leu  
225 230

<210> 11131  
<211> 1455  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (184).. (1200)

<400> 11131  
gacttccact gggaagaacc cagcagccgg aaggagtctc gagggggccc ttcccgcg 60  
ggtgtggccc tgcttcgcc agagccctg caccggggga cagcagacac cctcctcaac 120  
cgggttaaga agctgccttg tcagatcacc agctacctgg tggcgcacac cctagggcgc 180  
cggatgctgt atccaggctc tgtgtacctg ctgcagaagg ccctcatgcc tgtgtgctg 240  
cagggccagg cccgactggt ggaagagtgt aatgggcgcc gggcaaagct gctggcctgt 300  
gatggcaatg agattgacac catgtttgtg gaccggcggg ggacagctga gcccagggga 360

008220 69462960

```

cagaagctgg tgatctgctg tgaggggaat gctgggtttt atgaggtggg ctgcgtctcc 420
acgccccctgg aagctggata ttacgtcctg ggctgggaatc atccaggctt tgctggaagc 480
acgggggtgac cattcccgca gaatgaggct aatgccatgg atgtggtggt ccagtttgcc 540
atccaccgcc tgggcttcca gcccaggac atcatcatct acgcctggtc catcggcggc 600
ttcactgcca cgtgggcagc catgtcctac ccagatgtta gtgccatgat cctggatgcc 660
tcctttgatg acctgggtgcc cttggccttg aaggctcatgc cagacagctg gaggggcctg 720
gtgaccagga ccgtgaggca gcatctcaat ctaaacaacg cggagcagct gtgcagatac 780
cagggtcctg tactgctgat ccggagaacc aaggatgaga tcatcaccac cacggttcct 840
gaggacatca tgtccaaccg aggcaatgac ctccctgctga agctcctgca gcatcggtat 900
ccccgggtga tggcagagga gggctcttoga gtgggtgaggc agtggttgga ggcctcctca 960
cagctggagg aagcctcaat ttatagccga tgggagggtg aagaggactg gtgtctgtct 1020
gtcctccgct cctaccaggc agaacacggg ccgacttcc cctggagcgt gggggaggac 1080
atgagtgcag atggacggcg gcagctggct ttgtttctgg ctcggaagca tctgcacaac 1140
tttgaggcca ctactgcac cccactccca gccagaact tccagatgcc ctggcacctc 1200
tagggaccaa ctgggactca ttatggaaga atgggggtgag aggagacatg aggaaagacc 1260
ctcttatttg tgattctctg tgttcattgt gctgtttata gtttgtggaa agtgggggac 1320
catccccctt ctaccactg ttctcttgc acgtttcccc tcattcatgt ggctgtactt 1380
aaccttctcc aacatacatc ctgcattaca tgaatggatt attcctaata attaataaaa 1440
aggtattttt tctac 1455

```

<210> 11132  
 <211> 339  
 <212> PRT  
 <213> Homo sapiens

<400> 11132

Met	Leu	Tyr	Pro	Gly	Ser	Val	Tyr	Leu	Leu	Gln	Lys	Ala	Leu	Met	Pro
1				5				10					15		
Val	Leu	Leu	Gln	Gly	Gln	Ala	Arg	Leu	Val	Glu	Glu	Cys	Asn	Gly	Arg
			20					25					30		
Arg	Ala	Lys	Leu	Leu	Ala	Cys	Asp	Gly	Asn	Glu	Ile	Asp	Thr	Met	Phe
		35					40					45			
Val	Asp	Arg	Arg	Gly	Thr	Ala	Glu	Pro	Gln	Gly	Gln	Lys	Leu	Val	Ile
	50				55					60					
Cys	Cys	Glu	Gly	Asn	Ala	Gly	Phe	Tyr	Glu	Val	Gly	Cys	Val	Ser	Thr
65				70					75					80	
Pro	Leu	Glu	Ala	Gly	Tyr	Ser	Val	Leu	Gly	Trp	Asn	His	Pro	Gly	Phe
				85				90						95	
Ala	Gly	Ser	Thr	Gly	Val	Pro	Phe	Pro	Gln	Asn	Glu	Ala	Asn	Ala	Met
			100					105					110		
Asp	Val	Val	Val	Gln	Phe	Ala	Ile	His	Arg	Leu	Gly	Phe	Gln	Pro	Gln
	115						120					125			
Asp	Ile	Ile	Ile	Tyr	Ala	Trp	Ser	Ile	Gly	Gly	Phe	Thr	Ala	Thr	Trp
130					135						140				
Ala	Ala	Met	Ser	Tyr	Pro	Asp	Val	Ser	Ala	Met	Ile	Leu	Asp	Ala	Ser
145				150					155					160	
Phe	Asp	Asp	Leu	Val	Pro	Leu	Ala	Leu	Lys	Val	Met	Pro	Asp	Ser	Trp

000220"69462960





Glu Gly Pro Gly Leu Phe Pro  
260

<210> 11135  
<211> 1276  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (247).. (1101)

<400> 11135  
gcagctcctg ctgcctttc ccttcgctgg gogagagggtg tctatggggc acccgctgcc 60  
gccgccgcta ccgccaccgc caccgccacc gccgccgagt gctgtctcta tggcgaggag 120  
gaggaggagg agcgcgagct cagcgataca agtacataaa taaaggataa aatattttat 180  
gaaacaaatc ttcaatcaag tataacattt tgatgcttgg catctagact cccttgtgcc 240  
ctcactatgc cagcggcaac tgtagatcat agccaaagaa tttgtgaagt ttgggcttgc 300  
aacttggatg aagagatgaa gaaaattcgt caagttatcc gaaaatataa ttacgttgct 360  
atggacaccg agtttccagg tgtggttgca agaccattg gagaattcag gagcaatgct 420  
gactatcaat accaactatt gcggtgtaat gtagacttgt taaagataat tcagctagga 480  
ctgacattta tgaatgagca aggagaatac cctccaggaa cttcaacttg gcagtttaat 540  
tttaaattta atttgacgga ggacatgtat gcccaggact ctatagagct actaacaaca 600  
tctggtatcc agtttaaaaa acatgaggag gaaggaattg aaaccagta ctttgcagaa 660  
cttcttatga cttctggagt ggtcctctgt gaaggggtca aatggttgtc atttcatagc 720  
ggttacgact ttggctactt aatcaaaaatc ctaaccaact ctaacttgc tgaagaagaa 780  
cttgacttct ttgagatcct tcgattgttt ttctctgtca tttatgatgt gaagtacctc 840  
atgaagagct gcaaaaatct caaagggtgga ttacaggagg tggcagaaca gttagagctg 900  
gaacggatag gaccacaaca tcaggcagga tctgattcat tgctcacagg aatggccttt 960  
ttcaaaatga gagaaatgtt ctttgaagat catattgatg atgcaaaata ttgtggtcat 1020  
ttgtatggcc ttggttctgg ttcatcctat gtacagaatg gcacaggga tgcatatgaa 1080  
gaggaagcca acaagcggtc atgacatgaa atagtccttt tatttttatt tcgagctaca 1140  
cacatgcttg tatataggtt ttatctctgg ttgaatccct cgaacaatag acagtacctt 1200  
tccccccctt ttcattggcc attttattgt ctgcctttca gtactaagta tgaccgttcc 1260  
tatctcagat cttaat 1276

<210> 11136  
<211> 285  
<212> PRT  
<213> Homo sapiens

<400> 11136  
Met Pro Ala Ala Thr Val Asp His Ser Gln Arg Ile Cys Glu Val Trp  
1 5 10 15  
Ala Cys Asn Leu Asp Glu Glu Met Lys Lys Ile Arg Gln Val Ile Arg  
20 25 30

000240" 69462960

-4593/13211-

Lys	Tyr	Asn	Tyr	Val	Ala	Met	Asp	Thr	Glu	Phe	Pro	Gly	Val	Val	Ala
		35					40					45			
Arg	Pro	Ile	Gly	Glu	Phe	Arg	Ser	Asn	Ala	Asp	Tyr	Gln	Tyr	Gln	Leu
	50					55					60				
Leu	Arg	Cys	Asn	Val	Asp	Leu	Leu	Lys	Ile	Ile	Gln	Leu	Gly	Leu	Thr
65					70					75					80
Phe	Met	Asn	Glu	Gln	Gly	Glu	Tyr	Pro	Pro	Gly	Thr	Ser	Thr	Trp	Gln
				85					90					95	
Phe	Asn	Phe	Lys	Phe	Asn	Leu	Thr	Glu	Asp	Met	Tyr	Ala	Gln	Asp	Ser
			100					105					110		
Ile	Glu	Leu	Leu	Thr	Thr	Ser	Gly	Ile	Gln	Phe	Lys	Lys	His	Glu	Glu
	115						120					125			
Glu	Gly	Ile	Glu	Thr	Gln	Tyr	Phe	Ala	Glu	Leu	Leu	Met	Thr	Ser	Gly
	130					135					140				
Val	Val	Leu	Cys	Glu	Gly	Val	Lys	Trp	Leu	Ser	Phe	His	Ser	Gly	Tyr
145					150					155					160
Asp	Phe	Gly	Tyr	Leu	Ile	Lys	Ile	Leu	Thr	Asn	Ser	Asn	Leu	Pro	Glu
				165					170					175	
Glu	Glu	Leu	Asp	Phe	Phe	Glu	Ile	Leu	Arg	Leu	Phe	Phe	Pro	Val	Ile
			180					185					190		
Tyr	Asp	Val	Lys	Tyr	Leu	Met	Lys	Ser	Cys	Lys	Asn	Leu	Lys	Gly	Gly
	195					200						205			
Leu	Gln	Glu	Val	Ala	Glu	Gln	Leu	Glu	Leu	Glu	Arg	Ile	Gly	Pro	Gln
	210					215					220				
His	Gln	Ala	Gly	Ser	Asp	Ser	Leu	Leu	Thr	Gly	Met	Ala	Phe	Phe	Lys
225					230					235					240
Met	Arg	Glu	Met	Phe	Phe	Glu	Asp	His	Ile	Asp	Asp	Ala	Lys	Tyr	Cys
				245					250					255	
Gly	His	Leu	Tyr	Gly	Leu	Gly	Ser	Gly	Ser	Ser	Tyr	Val	Gln	Asn	Gly
			260					265					270		
Thr	Gly	Asn	Ala	Tyr	Glu	Glu	Glu	Ala	Asn	Lys	Arg	Ser			
		275					280					285			

<210> 11137

<211> 1574

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (3).. (1184)

<400> 11137

```

tcatagaattc gagcggctct cataaagatc tggctggcaa gtatcgtcag atcctggaaa 60
aagccattca gttatctgga gcagaacaac tagaagcttt gaaagctttt gtggaagcaa 120
tggtaaatga gaatgtcagt ctctgtatct cgcggcagtt gctgactgat ttttgcacac 180
atcttccataa cttgcctgat agcacagcca aagaaatcta tcacttcacc ttggaaaaga 240

```

008220.69462960



```

tccagcctag agtcgtttca tttgaggagc aggttgcttc cataagacag catcttgcac 300
ctatatatga gaaagaagaa gattggagaa atgcagccca agtgttggtg ggaattccctt 360
tggaacagg acaaaaacag tacaatgtag attataaact ggagacttac ttgaagattg 420
ctaggctata tctggaggat gatgatccag tccaggcaga ggcttacata aatcgagcat 480
cgttgcttca gaatgaatca accaatgaac aattacagat acattataag gtatgctatg 540
cacgtgttct tgattataga agaaaattca ttgaagctgc acaaaggtac aatgagctct 600
cttacaagac aatagtccac gaaagtgaag gactagaggc cttaaaacat gctttgcact 660
gtacgatctt agcatcagca gggcagcagc gttctcggtat gctagctact ctttttaagg 720
atgaaagggtg ccagcaactt gctgcctatg ggatccctaga gaaaatgtat ctagatagga 780
tcatcagagg aaatcaactt caagaatttg ctgccatgct gatgcctcac caaaaagcaa 840
ctacagctga tggttccagc atcttggaca gagctgttat tgaacacaat ttgttgtctg 900
caagcaaatt atataataat attaccttcg aagaacttgg agctctttta gagatccctg 960
cagctaaggc ggaaaagata gcatctcaaa tgataaccga aggacgtatg aatggattta 1020
ttgaccagat tgatggaata gttcattttg aaacacgaga agccctgcca acgtgggata 1080
agcagatcca atcactttgt ttccaagtga ataacctttt ggagaaaatt agtcaaacag 1140
caccagaatg gacagcacia gccatggaag ccagatggc tcagtgaatc cttgcagaac 1200
ttctgtgcac atgacatctt tttccatggt gtgcagatca gtttcaactat ctccaaagca 1260
tttgcacatc gaccttatac atttcaatcc cttttatgct ggattccgtt taaagaagac 1320
attattagag caggaagtac aagcatttaa aatatgtagt tcccatatat ttcagggtct 1380
ctgtgtatta agctaactca gatgttttga aagcttttct tttaaacaga ggtgaaatat 1440
ctgtggctaa aaagtttgag atttgtgata actttgtagt catgtaaaac ttaagtgcct 1500
catgcctctc caaatgtggt tattctaata aatggagaaa tgagccaaat aaaagtagta 1560
ctttgttttt agtt                                     1574

```

<210> 11138  
 <211> 394  
 <212> PRT  
 <213> Homo sapiens

<400> 11138

Met	Asn	Ser	Ser	Gly	Ser	His	Lys	Asp	Leu	Ala	Gly	Lys	Tyr	Arg	Gln
1				5					10					15	
Ile	Leu	Glu	Lys	Ala	Ile	Gln	Leu	Ser	Gly	Ala	Glu	Gln	Leu	Glu	Ala
			20					25					30		
Leu	Lys	Ala	Phe	Val	Glu	Ala	Met	Val	Asn	Glu	Asn	Val	Ser	Leu	Val
		35					40					45			
Ile	Ser	Arg	Gln	Leu	Leu	Thr	Asp	Phe	Cys	Thr	His	Leu	Pro	Asn	Leu
	50					55					60				
Pro	Asp	Ser	Thr	Ala	Lys	Glu	Ile	Tyr	His	Phe	Thr	Leu	Glu	Lys	Ile
	65				70					75				80	
Gln	Pro	Arg	Val	Val	Ser	Phe	Glu	Glu	Gln	Val	Ala	Ser	Ile	Arg	Gln
			85						90					95	
His	Leu	Ala	Ser	Ile	Tyr	Glu	Lys	Glu	Asp	Trp	Arg	Asn	Ala	Ala	
		100					105					110			
Gln	Val	Leu	Val	Gly	Ile	Pro	Leu	Glu	Thr	Gly	Gln	Lys	Gln	Tyr	Asn
		115				120						125			
Val	Asp	Tyr	Lys	Leu	Glu	Thr	Tyr	Leu	Lys	Ile	Ala	Arg	Leu	Tyr	Leu

003220" 59462960

130		135		140
Glu Asp Asp Asp Pro Val	Gln Ala Glu Ala Tyr Ile	Asn Arg Ala Ser		
145	150	155	160	
Leu Leu Gln Asn Glu Ser Thr	Asn Glu Gln Leu Gln Ile	His Tyr Lys		
	165	170	175	
Val Cys Tyr Ala Arg Val	Leu Asp Tyr Arg Arg Lys	Phe Ile Glu Ala		
	180	185	190	
Ala Gln Arg Tyr Asn Glu Leu	Ser Tyr Lys Thr Ile	Val His Glu Ser		
	195	200	205	
Glu Arg Leu Glu Ala Leu Lys	His Ala Leu His Cys Thr	Ile Leu Ala		
	210	215	220	
Ser Ala Gly Gln Gln Arg Ser	Arg Met Leu Ala Thr	Leu Phe Lys Asp		
225	230	235	240	
Glu Arg Cys Gln Gln Leu Ala	Ala Tyr Gly Ile	Leu Glu Lys Met Tyr		
	245	250	255	
Leu Asp Arg Ile Ile Arg Gly	Asn Gln Leu Gln Glu Phe	Ala Ala Met		
	260	265	270	
Leu Met Pro His Gln Lys Ala	Thr Thr Ala Asp Gly	Ser Ser Ile Leu		
	275	280	285	
Asp Arg Ala Val Ile Glu His	Asn Leu Leu Ser Ala	Ser Lys Leu Tyr		
	290	295	300	
Asn Asn Ile Thr Phe Glu Glu	Leu Gly Ala Leu Leu Glu	Ile Pro Ala		
305	310	315	320	
Ala Lys Ala Glu Lys Ile Ala	Ser Gln Met Ile Thr	Glu Gly Arg Met		
	325	330	335	
Asn Gly Phe Ile Asp Gln Ile	Asp Gly Ile Val His Phe	Glu Thr Arg		
	340	345	350	
Glu Ala Leu Pro Thr Trp Asp	Lys Gln Ile Gln Ser	Leu Cys Phe Gln		
	355	360	365	
Val Asn Asn Leu Leu Glu Lys	Ile Ser Gln Thr Ala	Pro Glu Trp Thr		
	370	375	380	
Ala Gln Ala Met Glu Ala Gln	Met Ala Gln			
385	390			

<210> 11139  
 <211> 1429  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (202).. (1131)

<400> 11139  
 ccggaagtcg agttagtcta gttagtatcg gcctgttata tccttttgcg cgacacggtc 60  
 tcagctgttc cgcctgaggc gactgacgct ggccgccaac gaggtatacg tactgggacc 120  
 ctgcgccctca gtctcgtctc cggcgcgggt acctgccccg ttttccctgt gagttgacct 180

000220-6946960

```

gctccggggcc gcggggccgcc aatggcaggg gccgctccga ccacggcctt cgggcaggcg 240
gtgaccggcc cgccgggctc aggggaagacc acgtactgcc tgggcatgag tgagttcctg 300
cgcgcgctgg gccggcgcggt ggcggtgggtg aacctggacc cggccaacga ggggctgccg 360
tacgagtgtg ccgtggacgt gggcgagctg gtggggctgg gcgacgtgat ggacgcgctg 420
cgcttggggc ccaacggcgg cctgctctac tgcattggagt acctggaagc caacctggac 480
tggctgcgtg ccaagctcga cccctccgc ggccactact tcctcttcga ctgccaggc 540
cagggtggagc tctgcacgca tcacggcgcc ttgcgcagca tcttctccca aatggcgag 600
tgggacctca ggctgactgc cgtccacctc gtggattctc actactgcac agacctgcc 660
aagttcattt cagtactgtg tacctccctg gccaccatgc tgcacgtgga actgccccac 720
atcaacctcc tttccaagat ggacctcatt gacattatg ggaagctggc cttcaacctg 780
gactactaca cagaggttct ggacctctcc tacctgcttg accacctggc ttctgacct 840
ttcttccgcc actaccgcca gctcaatgag aagctagtgc agctcatcga agactatagc 900
cttgtctcct ttatccctct caacatccag gacaaggaga goatccagcg agtctgcag 960
gctgtggata aagccaatgg atactgtttc agagcccaag agcagcgaag cttggaagcc 1020
atgatgtctg ccgcaatggg agccgacttc catttctctt ccacactggg catccaggag 1080
aagtacctgg caccctcgaa ccagtcagtg gacaggaag ccatgcagct gtagcaacaa 1140
ggtggacctt ggagagcagg atgcataatc cagcactggg gaaagtggag gctcctgatg 1200
caggctgcag acccaagagc aagtcctccc agccagagct ggcgggctgg caaggggata 1260
ttcagctctg caaaggactt ctggccaaaa agccagacat ggtgccaaagc agaacacccc 1320
ccatactgtc agtggtgtcc gtgagctctg ggccctgccca ccagaaagtc gagcactggt 1380
cctagtcagg ctgtgatgaa atgtgctaca atacaagagt ttattttct 1429

```

<210> 11140  
 <211> 310  
 <212> PRT  
 <213> Homo sapiens

<400> 11140

Met	Ala	Gly	Ala	Ala	Pro	Thr	Thr	Ala	Phe	Gly	Gln	Ala	Val	Thr	Gly
1				5				10					15		
Pro	Pro	Gly	Ser	Gly	Lys	Thr	Thr	Tyr	Cys	Leu	Gly	Met	Ser	Glu	Phe
			20					25				30			
Leu	Arg	Ala	Leu	Gly	Arg	Arg	Val	Ala	Val	Val	Asn	Leu	Asp	Pro	Ala
			35				40					45			
Asn	Glu	Gly	Leu	Pro	Tyr	Glu	Cys	Ala	Val	Asp	Val	Gly	Glu	Leu	Val
	50					55				60					
Gly	Leu	Gly	Asp	Val	Met	Asp	Ala	Leu	Arg	Leu	Gly	Pro	Asn	Gly	Gly
	65				70				75					80	
Leu	Leu	Tyr	Cys	Met	Glu	Tyr	Leu	Glu	Ala	Asn	Leu	Asp	Trp	Leu	Arg
			85					90					95		
Ala	Lys	Leu	Asp	Pro	Leu	Arg	Gly	His	Tyr	Phe	Leu	Phe	Asp	Cys	Pro
			100				105					110			
Gly	Gln	Val	Glu	Leu	Cys	Thr	His	His	Gly	Ala	Leu	Arg	Ser	Ile	Phe
	115					120					125				
Ser	Gln	Met	Ala	Gln	Trp	Asp	Leu	Arg	Leu	Thr	Ala	Val	His	Leu	Val
	130					135				140					
Asp	Ser	His	Tyr	Cys	Thr	Asp	Pro	Ala	Lys	Phe	Ile	Ser	Val	Leu	Cys

008220"69462960

145		150		155		160
Thr Ser Leu Ala Thr Met Leu His Val Glu Leu Pro His Ile Asn Leu						
		165		170		175
Leu Ser Lys Met Asp Leu Ile Glu His Tyr Gly Lys Leu Ala Phe Asn						
		180		185		190
Leu Asp Tyr Tyr Thr Glu Val Leu Asp Leu Ser Tyr Leu Leu Asp His						
		195		200		205
Leu Ala Ser Asp Pro Phe Phe Arg His Tyr Arg Gln Leu Asn Glu Lys						
		210		215		220
Leu Val Gln Leu Ile Glu Asp Tyr Ser Leu Val Ser Phe Ile Pro Leu						
		225		230		235
Asn Ile Gln Asp Lys Glu Ser Ile Gln Arg Val Leu Gln Ala Val Asp						
		245		250		255
Lys Ala Asn Gly Tyr Cys Phe Arg Ala Gln Glu Gln Arg Ser Leu Glu						
		260		265		270
Ala Met Met Ser Ala Ala Met Gly Ala Asp Phe His Phe Ser Ser Thr						
		275		280		285
Leu Gly Ile Gln Glu Lys Tyr Leu Ala Pro Ser Asn Gln Ser Val Glu						
		290		295		300
Gln Glu Ala Met Gln Leu						
305		310				

<210> 11141  
 <211> 1648  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (304).. (1056)

<400> 11141  
 actctgcctc caaagccacc gtccccccga ggcaccactg catcccccaa ggggcgggtt 60  
 cggaggaagg aggaggcaaa ggagagcccc agcgccgcag ggcccgagga caagagccag 120  
 agcaagcgca gggccagtaa cgagaaggag tcagcagccc cagcctcacc ggcaccttcg 180  
 ccggcgccct cgcccacccc agccccgccc cagaaggagc agccccccgc ggagaccctt 240  
 acagacgctg ctgtcttgac ctacccccca gcccttgctc ccccggtgac ccctagcaaa 300  
 ccaatggccg gcaccacaga ccgagaagaa gccactcggc tcttggctga gaagcggcgc 360  
 caggccccggg agcagcggga gcgcgaggag caggagcggg ggctgcaggc agaaaggagc 420  
 aagcgaatgc gagaggagca gctggcacgg gaggccgagg ccggggcgga gcgggaggcg 480  
 gaggccccgga gcggggagga gcaggaggca cgagagaagg cgcaggccga gcaggaggag 540  
 caggagcggc tgcagaagca gaaagaggag gccgaagctc ggtcgcggga agaggcggag 600  
 cggcagcgtc tggagcggga aaagcacttc cagcagcagg agcaagagcg gcaagagcgc 660  
 agaaagcgtc tggaggagat catgaaggag actcggaagt cagaagtffc tgaaaccaag 720  
 aagcaggaca gcaaggaggc caacgccaac ggttcagcc cagagcctgt gaaagctgtg 780  
 gaggctcggc cccagggct gcagaaggag gctgtgcaga aagaggagcc catccacag 840  
 gagcctcagt ggagtctccc aagcaaggag ttgccagcgt ccttggtgaa tggcctgcag 900

008220" 69462960

```

cctctcccag cacaccagga gaatggcttc tccaccaacg gaccctctgg ggacaagagt 960
ctgagccgaa caccagagac actcctgccc ttgcagagg cagaagcctt cctcaagaaa 1020
gctgtggtgc agtccccgca ggtcacagaa gtcccttaag agggtttgcc ttggatccgg 1080
gcacagtgtg gagggctcct ctgcatcacc taccaggatg totggaggag aaaaagacag 1140
aacaaagatg gaagtggcct gggcccctgg ggggtgggtcc totctgttgt tttaaatctg 1200
caccttatag actgatgtct ctttgccggg agccagatct gcccctcagt gcattcgtgt 1260
gctcgcacgc gcagacatcc cttctcccc atacacacat atacaactcac agcctctctg 1320
gcctcttccc ttggggaggg gccacctgta gtatttgctt tgatttgggt gggtacagtg 1380
gatgtgaata ctgtaaatag cttgtgctca gactcctotg cgtggagagg gtgggtgcag 1440
gaggcagacc ctcccccaa agcccctgg ggagatcttc ctctctctat ttaactgtaa 1500
ctgaggggga tccaggtct ggggatgggg gacaccttgg gccacaggat actggttgct 1560
tcaggggtac ccatgcccc tgcctcgcc tggaatcagt gttactgcat ctgattaaat 1620
gtctccagaa ataaagaata attctgcc 1648

```

<210> 11142  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens

<400> 11142

Met	Ala	Gly	Thr	Thr	Asp	Arg	Glu	Glu	Ala	Thr	Arg	Leu	Leu	Ala	Glu
1				5					10					15	
Lys	Arg	Arg	Gln	Ala	Arg	Glu	Gln	Arg	Glu	Arg	Glu	Glu	Gln	Glu	Arg
			20					25					30		
Arg	Leu	Gln	Ala	Glu	Arg	Asp	Lys	Arg	Met	Arg	Glu	Glu	Gln	Leu	Ala
			35				40					45			
Arg	Glu	Ala	Glu	Ala	Arg	Ala	Glu	Arg	Glu	Ala	Glu	Ala	Arg	Arg	Arg
			50				55					60			
Glu	Glu	Gln	Glu	Ala	Arg	Glu	Lys	Ala	Gln	Ala	Glu	Gln	Glu	Glu	Gln
			65			70				75				80	
Glu	Arg	Leu	Gln	Lys	Gln	Lys	Glu	Glu	Ala	Glu	Ala	Arg	Ser	Arg	Glu
			85						90					95	
Glu	Ala	Glu	Arg	Gln	Arg	Leu	Glu	Arg	Glu	Lys	His	Phe	Gln	Gln	Gln
			100					105					110		
Glu	Gln	Glu	Arg	Gln	Glu	Arg	Arg	Lys	Arg	Leu	Glu	Glu	Ile	Met	Lys
			115				120						125		
Arg	Thr	Arg	Lys	Ser	Glu	Val	Ser	Glu	Thr	Lys	Lys	Gln	Asp	Ser	Lys
			130			135						140			
Glu	Ala	Asn	Ala	Asn	Gly	Ser	Ser	Pro	Glu	Pro	Val	Lys	Ala	Val	Glu
			145			150					155			160	
Ala	Arg	Ser	Pro	Gly	Leu	Gln	Lys	Glu	Ala	Val	Gln	Lys	Glu	Glu	Pro
			165						170					175	
Ile	Pro	Gln	Glu	Pro	Gln	Trp	Ser	Leu	Pro	Ser	Lys	Glu	Leu	Pro	Ala
			180					185					190		
Ser	Leu	Val	Asn	Gly	Leu	Gln	Pro	Leu	Pro	Ala	His	Gln	Glu	Asn	Gly
			195				200					205			
Phe	Ser	Thr	Asn	Gly	Pro	Ser	Gly	Asp	Lys	Ser	Leu	Ser	Arg	Thr	Pro

008270.69462960

-4599/13211-

210						215						220					
Glu	Thr	Leu	Leu	Pro	Phe	Ala	Glu	Ala	Glu	Ala	Phe	Leu	Lys	Lys	Ala		
225						230					235				240		
Val	Val	Gln	Ser	Pro	Gln	Val	Thr	Glu	Val	Leu							
				245					250								

<210> 11143  
<211> 1733  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (52).. (1164)

<400> 11143  
ctaaactggg ttaaggaagt aaccagagac ctttccatct tgactatccc catgcatttc 60  
tgggcacttt tttaacccaaa gagagcaatg gaccaggctc gagaactggg caacatgttg 120  
gagaagatag ccggcccccatt tggcatgcgt atgagcccac cggcctgggt tgaactaaag 180  
gatgaccgaa tagagactta tgtcagaacc attcaatcca cgttaggagc tgaggggaag 240  
atacagatgg ttgtttgcat catcatgggc ccacgtgatg atctctatgg ggccatcaat 300  
aagctgtgct gtgtgcagtc ccacgtgccc tcccagggtg tcaatgttcg aaccattggg 360  
cagcccacca ggcttcggag tgtggcccag aagattttac ttcagattaa ctgtaaattg 420  
gggtgtgagc tctggggagt ggatattcct ctgaaacagt taatggatgat cgggatggat 480  
gtttaccatg accccagtag aggcattgcgc tccgtgggtg gcttcgtggc aagcatcaat 540  
ctcaccctca caaaatggta ttcccgggtg gtgttccaga tgccgcacat ggagattgtg 600  
gacagcctga agctatgcct cgtgggctcc ttaaaaaagt tttatgaggt gaaccactgt 660  
ctaccagaga agattgtggg gtaccgtgat ggagtgctct atggccaact gaagacagtt 720  
gccaaactat agattcctca actacagaag tgttttgaag cttttgagaa ttatcagccc 780  
aagatgggtg tgtttgtagt tcagaagaaa atcagtacta atctatatct ggctgctcct 840  
cagaactttg taactccac tccctggaact gtggtagatc atacaataac aagctgtgag 900  
tggtgtgatt tctatcttct tgcccatcat gtacggcagg gctgtggcat tcctacgcat 960  
tatgtctgtg ttctcaacac cgcaaacctg agccctgatc atatgcagag gctgactttc 1020  
aaactgtgcc acatgtactg gaattggcct ggcaccatca gagttccagc tccttgcaag 1080  
tatgcccaca agctagcttt cctgtcagga cacatcttgc atcatgaacc agccatccag 1140  
ctgtgcgaga acctgttctt cctgtgactg cacagcttgg agatgggctg gtgagaagaa 1200  
aggcggcctc agaactcagc tgtgactctt gcagaatcaa cagagactga agtgggcttt 1260  
tgtgttataa ttttcccttt ctccaaccct gtagaataag atttctttct tgtcttttaa 1320  
acctaatatc accaagaagc aagtttctga gtaacagctg aaaatggcct tgttgccctgt 1380  
gtagagcaag ttacggtggg actgccactc tgcagggtga ggggtgact ctgggggacc 1440  
attaagacct ccagaccggg tgcgggtggt cacacctgta atccaagcac ttggggaggc 1500  
cgaggcgggt ggatcatgag gtcaggagat caagaccatc ctggccaaca tggtgaaacc 1560  
ccgtctctac taaaatacaa aaaaattagc cgggtgtggc ggtgcacgcc ttagtccca 1620  
gtactcagg aggctaaggc aggagaatcg cttgaaccgg ggaggtggag gttgcagtga 1680  
gccgagatca cgccactgca ctccagcctg ttgacaaagc aagactctgt ctc 1733

008220 69469 07300



-4601/13211-

Arg Val Pro Ala Pro Cys Lys Tyr Ala His Lys Leu Ala Phe Leu Ser  
                  340                  345                  350  
Gly His Ile Leu His His Glu Pro Ala Ile Gln Leu Cys Glu Asn Leu  
                  355                  360                  365  
Phe Phe Leu  
                  370

<210> 11145  
<211> 2008  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (146).. (1741)

<400> 11145  
acaagaaaat gttactttaa tatataatcc atcagacaga ggaatcaata ataaaaactgc 60  
aacagaaacta tcaactgtat acttatttgg tggagatgaa atttcaagac agcagtatcg 120  
cagggccctg ttacataaac cagagatgat aaaacagata ottccagaac atagtgtgct 180  
tcaaaacatt aattttgttg aagcatttca agatgagcta ttagtaactg aagtatatga 240  
tcttccccaac cgacctaatg atgttcagct cttttatgga agcatgtgta aaattatact 300  
ttcagtaatt ggagaattca gagattgcat ttctagcaga gaattccttc agccttcttc 360  
caaagctagc ttggaatcta caagcgactt gggagcttct gggaaacatg gtggcaacgt 420  
ctctttggat gttttaccag tcaaaggtcc tcagggttct cctcttctct caggggcggc 480  
tcgcccgcct ccggatcagc tggcctccga agagccgtgg actgtcctac ccgagcactt 540  
gattctggta gctccttctc cttgtgacat ggcaaaaact ggacgtttcc agattgtgaa 600  
taactctgtg aggttactga gatttgagct gtgctggcca gcgcattgcc tcacagtcac 660  
gccgcagcat ggatgtgtcg cgccagagag taaactacaa attcttgtga gtocctaattc 720  
ctccttatcc acaaaacagt caatgttccc gtggagtggg ttgatotata taaactgtga 780  
cgatggacag aagaaaattg tgaaagttca aattcgagaa gatttaactc aagtggaaact 840  
tttaactcgt ttgacctcca aaccatttgg aattctttcc ccagtatctg agccttcagt 900  
tagtcatttg gtcaaaccac tgacaaaacc gccttccaca aaagttgaaa taagaaacaa 960  
gagtattact tttcctacaa cagaacctgg tgaaacttca gagagctgtc tagaactcga 1020  
gaatcatggc accacagacg tgaaatggca tctgtcatct ttagcgccac cttatgtcaa 1080  
gggagttgat gaaagtggag atgttttttag agctacctat gcagcattca gatgttctcc 1140  
tatttctggg ctgctggaaa gccatgggat ccaaaaagtc tccatcacat ttttgcccag 1200  
aggtaggggg gattatgccc agttttggga tgttgaatgt caccctotta aggagcctca 1260  
catgaaacac acgttgagat tccaactctc tggacaaagc atcgaagcag aaaatgagcc 1320  
tgaaaacgca tgcctttcca cggattccct cattaaaata gatcatttag ttaagccccg 1380  
aagacaagct gtgtcagagg cttctgctcg catacctgag cagcttgatg tgactgctcg 1440  
tggagtttat gcccagagg atgtgtacag gttcctgccc actagtgtgg gggaatcacg 1500  
gacacttaaa gtcaatctgc gaaataattc ttttattaca cactcactga agtttttgag 1560  
tcccagagag ccattctatg tcaaacattc caagtactct ttgagagccc agcattacat 1620  
caacatgccc gtgcagttca aaccgaagtc cgcaggcaaa tttgaagctt tgcttgtcat 1680  
tcaaacagat gaaggcaaga gtattgctat tcgactaatt ggtgaagctc ttggaaaaaa 1740  
ttaactagaa tacatttttg tgtaaagtaa attacgtaag ttgtattttg ttaactttat 1800

00629459.072800



ctttctacac tacaattatg cttttgtata tatattttgt atgatggata tctataattg 1860  
tagattttgt ttttacaagc taatactgaa gactcgactg aaatattatg tatctagccc 1920  
atagtattgt acttaacttt tacaggtgag aagagagttc tgtgtttgca ttgattatga 1980  
tattctgaat aaatatggaa tatatttt 2008

<210> 11146  
<211> 532  
<212> PRT  
<213> Homo sapiens

<400> 11146

Met	Ile	Lys	Gln	Ile	Leu	Pro	Glu	His	Ser	Val	Leu	Gln	Asn	Ile	Asn	1	5	10	15
Phe	Val	Glu	Ala	Phe	Gln	Asp	Glu	Leu	Val	Thr	Glu	Val	Tyr	Asp		20	25	30	
Leu	Pro	Gln	Arg	Pro	Asn	Asp	Val	Gln	Leu	Phe	Tyr	Gly	Ser	Met	Cys	35	40	45	
Lys	Ile	Ile	Leu	Ser	Val	Ile	Gly	Glu	Phe	Arg	Asp	Cys	Ile	Ser	Ser	50	55	60	
Arg	Glu	Phe	Leu	Gln	Pro	Ser	Ser	Lys	Ala	Ser	Leu	Glu	Ser	Thr	Ser	65	70	75	80
Asp	Leu	Gly	Ala	Ser	Gly	Lys	His	Gly	Gly	Asn	Val	Ser	Leu	Asp	Val	85	90	95	
Leu	Pro	Val	Lys	Gly	Pro	Gln	Gly	Ser	Pro	Leu	Leu	Ser	Arg	Ala	Ala	100	105	110	
Arg	Pro	Pro	Pro	Asp	Gln	Leu	Ala	Ser	Glu	Glu	Pro	Trp	Thr	Val	Leu	115	120	125	
Pro	Glu	His	Leu	Ile	Leu	Val	Ala	Pro	Ser	Pro	Cys	Asp	Met	Ala	Lys	130	135	140	
Thr	Gly	Arg	Phe	Gln	Ile	Val	Asn	Asn	Ser	Val	Arg	Leu	Leu	Arg	Phe	145	150	155	160
Glu	Leu	Cys	Trp	Pro	Ala	His	Cys	Leu	Thr	Val	Thr	Pro	Gln	His	Gly	165	170	175	
Cys	Val	Ala	Pro	Glu	Ser	Lys	Leu	Gln	Ile	Leu	Val	Ser	Pro	Asn	Ser	180	185	190	
Ser	Leu	Ser	Thr	Lys	Gln	Ser	Met	Phe	Pro	Trp	Ser	Gly	Leu	Ile	Tyr	195	200	205	
Ile	His	Cys	Asp	Asp	Gly	Gln	Lys	Lys	Ile	Val	Lys	Val	Gln	Ile	Arg	210	215	220	
Glu	Asp	Leu	Thr	Gln	Val	Glu	Leu	Leu	Thr	Arg	Leu	Thr	Ser	Lys	Pro	225	230	235	240
Phe	Gly	Ile	Leu	Ser	Pro	Val	Ser	Glu	Pro	Ser	Val	Ser	His	Leu	Val	245	250	255	
Lys	Pro	Met	Thr	Lys	Pro	Pro	Ser	Thr	Lys	Val	Glu	Ile	Arg	Asn	Lys	260	265	270	
Ser	Ile	Thr	Phe	Pro	Thr	Thr	Glu	Pro	Gly	Glu	Thr	Ser	Glu	Ser	Cys	275	280	285	

09529469.072800

Leu Glu Leu Glu Asn His Gly Thr Thr Asp Val Lys Trp His Leu Ser  
 290 295 300  
 Ser Leu Ala Pro Pro Tyr Val Lys Gly Val Asp Glu Ser Gly Asp Val  
 305 310 315 320  
 Phe Arg Ala Thr Tyr Ala Ala Phe Arg Cys Ser Pro Ile Ser Gly Leu  
 325 330 335  
 Leu Glu Ser His Gly Ile Gln Lys Val Ser Ile Thr Phe Leu Pro Arg  
 340 345 350  
 Gly Arg Gly Asp Tyr Ala Gln Phe Trp Asp Val Glu Cys His Pro Leu  
 355 360 365  
 Lys Glu Pro His Met Lys His Thr Leu Arg Phe Gln Leu Ser Gly Gln  
 370 375 380  
 Ser Ile Glu Ala Glu Asn Glu Pro Glu Asn Ala Cys Leu Ser Thr Asp  
 385 390 395 400  
 Ser Leu Ile Lys Ile Asp His Leu Val Lys Pro Arg Arg Gln Ala Val  
 405 410 415  
 Ser Glu Ala Ser Ala Arg Ile Pro Glu Gln Leu Asp Val Thr Ala Arg  
 420 425 430  
 Gly Val Tyr Ala Pro Glu Asp Val Tyr Arg Phe Leu Pro Thr Ser Val  
 435 440 445  
 Gly Glu Ser Arg Thr Leu Lys Val Asn Leu Arg Asn Asn Ser Phe Ile  
 450 455 460  
 Thr His Ser Leu Lys Phe Leu Ser Pro Arg Glu Pro Phe Tyr Val Lys  
 465 470 475 480  
 His Ser Lys Tyr Ser Leu Arg Ala Gln His Tyr Ile Asn Met Pro Val  
 485 490 495  
 Gln Phe Lys Pro Lys Ser Ala Gly Lys Phe Glu Ala Leu Leu Val Ile  
 500 505 510  
 Gln Thr Asp Glu Gly Lys Ser Ile Ala Ile Arg Leu Ile Gly Glu Ala  
 515 520 525  
 Leu Gly Lys Asn  
 530

<210> 11147

<211> 1336

<212> DNA

<213> Homo sapiens

<400> 11147

agtagccttt gtcccctgtc cctgttcccc ccacccttc cctaaatctg gaccttggca 60  
 cctgctagga agagccttgg acccttccag ttgcgtaaag caaacctacc ccggtatctt 120  
 ggcttcagcc gccagggggc agtggcagcc ctggggccct ttcccttctg gaggaagcac 180  
 aagcctcagg gaaggggaag caggatgcgg agggccaaag cccgggacct ctacttgaac 240  
 agttctactg gggaggctgg agaactaagg aaacacctgt acatagtgtc cgctaccctg 300  
 actcccgctt agcacacct taggcaggcg ccccttccac ctttccccga gaccgtcgtc 360  
 gctggagggg gcagggtcca gccgcctgg atcgggtggtg tgcacctgat gggatttggg 420  
 aaatgggcta tccgtaaagc tttatcttgc ttggcttagc tgtgagaagt ggttctcttc 480

```

ctctggtccc ttctggggac tctgtttccc catttcttgc tgctgtgtcc ctcaccagtt 540
ccttgcagga ttccctcctt tttaaatgcc cttgaatcta gctttgcctt ggagacccca 600
gtgggtgctg ctcttgccgt tttcttcctg ccaagcctga atcaatgttt catctccaac 660
cctctgccag tttggccctt cagagcttgg tggctcaaga ctgttagcct ggagagacca 720
ggggtgaagg gagaagctct tggagcaggc aggatgcccc ccgctgcttc agctgcctcc 780
tcgcccagct accctttggc cccattgggc cctcgtctgc ctctccagga ttgtatgttt 840
caagccttgt cctgtgttcc tttgtctgac gctctgtgta ttgctctttg aatcgagttt 900
ggaggaagag ttgagttgta tgagtggcgg catgttggta gtgccggact tcctgtttca 960
agttttctgg ggcctcgcta attgaatgtg gaaagtagca ccacttgacg gctacaagtg 1020
ccgactcctg aattttccca tgggtgttctg acttcaaggg ctggcagcca gggagaatgg 1080
gccaggggga agcaaagacc tcttccctct gcggtttctg tcccacttaa ctgacctcac 1140
tgagggttac atcacccaaa gtagatgtta gaaaacctaa attaatgaac catattttta 1200
aaatcctatt tttcccaaac agggccctct gcagcccac ctttcttcc gtccttctga 1260
aaccacatac ccagggccca agcgccctgc tgccacgccc aacctctttg ggagaagtat 1320
gaatgcgtgt atctat                                     1336

```

<210> 11148  
 <211> 1259  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (316).. (1071)

```

<400> 11148
tttacgcccc caggatctgg ggcgtagcaa tttatcgggt cacttcattc gtacagtttc 60
tcctctaagc acacccgaga aaggccatct gtcccccgag agcccattga ccgcaagagg 120
ccgaagaaaag atgtggaacc aagctgcagt gggagcagcc tgggacccga caagggcctg 180
gccagagacc ctcccagctc atcaattacc gcgacaccgc agaagccttc ccagagcccc 240
tctgcccctc ctgccgacgt caccocaaag ccagccacgg aagccgtgca gagcgagcac 300
agcgacgcca gcccctatgt catcaacgag gtcatcctgt cggcgtcagg ggcctgcaag 360
ctcatcgact cactgcactc ctactgcttc tctcccggc agaacaagag ccaggtgtgc 420
tgcttgcggg agcaggtgga gaagaagaac ggcgagctga agagcctgcg gcagagggtc 480
agccgctccg acagccaggt gcggaagcta caggagaagc tggatgagct gaggagagtg 540
agcgtcccct atccaagtag cctgctgtcg ccagcccgag agcccccaa gatgaaccca 600
gtgggtggagc cactgtcctg gatgctgggc acctggctgt cggacccacc tggagccggg 660
acctacccca cactgcagcc cttccagtac ctggaggagg ttacatctc ccacgtgggc 720
cagcccatgc tgaacttctc gttcaactcc ttccaccgg acacgcgcaa gccgatgcac 780
agagagtgtg gcttcattcg cctcaagccc gacaccaaca aggtggcctt tgtcagcgcc 840
cagaacacag gcgtggtgga agtggaggag ggcgagggtg acgggcagga gctgtgcac 900
gcatcccact ccatcgccag gatctccttc gccaaaggag ccacgtaga gcagatcacc 960
cggaagtcca ggctgaattc tgaaggcaaa cttgagcaga cggctctccat ggcaaccacg 1020
acacagccaa tgactcagca tcttcacgtc acctacaaga aggtgacccc gtaaacctag 1080
agcttctgga gccctcgga gggcctggct actgtgcctc aacggttcgg ctctcaaca 1140
gacagtccct gcggcagaag tgggtgtggc cgtgagcctc tgcaggotca agagtgttgt 1200
ccagatgttt ctgtactggc atagaaaaac caaataaaag gcctttattt ttatggctg 1259

```

<210> 11149  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens

<400> 11149

```

Met Ser Ile Asn Glu Val Ile Leu Ser Ala Ser Gly Ala Cys Lys Leu
 1          5          10          15
Ile Asp Ser Leu His Ser Tyr Cys Phe Ser Ser Arg Gln Asn Lys Ser
 20          25          30
Gln Val Cys Cys Leu Arg Glu Gln Val Glu Lys Lys Asn Gly Glu Leu
 35          40          45
Lys Ser Leu Arg Gln Arg Val Ser Arg Ser Asp Ser Gln Val Arg Lys
 50          55          60
Leu Gln Glu Lys Leu Asp Glu Leu Arg Arg Val Ser Val Pro Tyr Pro
 65          70          75          80
Ser Ser Leu Leu Ser Pro Ser Arg Glu Pro Pro Lys Met Asn Pro Val
 85          90          95
Val Glu Pro Leu Ser Trp Met Leu Gly Thr Trp Leu Ser Asp Pro Pro
100          105          110
Gly Ala Gly Thr Tyr Pro Thr Leu Gln Pro Phe Gln Tyr Leu Glu Glu
115          120          125
Val His Ile Ser His Val Gly Gln Pro Met Leu Asn Phe Ser Phe Asn
130          135          140
Ser Phe His Pro Asp Thr Arg Lys Pro Met His Arg Glu Cys Gly Phe
145          150          155          160
Ile Arg Leu Lys Pro Asp Thr Asn Lys Val Ala Phe Val Ser Ala Gln
165          170          175
Asn Thr Gly Val Val Glu Val Glu Glu Gly Glu Val Asn Gly Gln Glu
180          185          190
Leu Cys Ile Ala Ser His Ser Ile Ala Arg Ile Ser Phe Ala Lys Glu
195          200          205
Pro His Val Glu Gln Ile Thr Arg Lys Phe Arg Leu Asn Ser Glu Gly
210          215          220
Lys Leu Glu Gln Thr Val Ser Met Ala Thr Thr Thr Gln Pro Met Thr
225          230          235          240
Gln His Leu His Val Thr Tyr Lys Lys Val Thr Pro
245          250
    
```

<210> 11150  
 <211> 1350  
 <212> DNA  
 <213> Homo sapiens

<220>

09629469.072300

<221> CDS

<222> (66).. (899)

<400> 11150

```

ttcatgatta tagtgacgca gctgccccga gccccgtgct tggcaacatt ccccccaacg 60
atgggatgcc gggaggcccc atcccgccag gtttctttca gggtcctccg gggtcacagc 120
cctcgccgca cgcacagcct ccacctcaca atcctagcag catgatggga cccacagtc 180
agccttttat gtcaccgga tacgcaggcg gccccaggcc cccgatcaga atgggaaacc 240
agcctccggg aggagttcct gggacacagc cattgctgcc caattctatg gatcccacac 300
gacaacaagg ccacccaac atgggaggat caatgcagag aatgaaccct ccccgaggca 360
tggggcccat gggtcgccgc ccacagaatt acggcagcgg catgagacca ccacccaact 420
ccctcgcccc cgcctatgcc gggattaaca tgggccccgg agctggcaga ccctggcccc 480
atcctaacag tgctaactca attccatact cctcctcctc acctggtacc tatgtgggac 540
cccctggtgg tggcggtcct ccaggaacac ccattatgcc cagtcccgca gattcaacaa 600
attccagtga caacatctac acaatgatta atccagtgc gcctggaggc agccggtcca 660
acttcccgat gggtcgccgc tcggacggtc cgatggcgcg catgggtggc atggagccac 720
accacatgaa tggatcatta gggtcaggcg acatagacgg acttccaaaa aattctccta 780
acaacataag tggcattagc aatcctccag gcacccctcg agatgacggc gagctaggag 840
ggaacttcct ccactccttt cagaacgaca attattctcc aagcatgacg atgagtgtgt 900
gatccccctt tctccgagac gctgagagag caggcattgc aggcgggaag atgccagaaa 960
ttatgcaaga agtgagggtg cattatccag gagctggtgg ggagggcctc tccctgctcc 1020
cctcaacccc ctcccacccc atccacgccc cctacctttc ccaatttttag tttcatgcaa 1080
taaaaaggcc aaacttttta ttccataaaa caagaaggac aaaactctca aaaatgtatt 1140
tcaagtcagt gaccagaaaa atcccacccc ttgccctttc cccaaaggac cttttctgta 1200
catgacactt ttttggtgtt ttttggttgg ggttttacca ttgttgggat ttttttattt 1260
gttttcaggg ggtttttttg ggggaaaatt tttttaaatg gaagcttcta gcaagcccc 1320
cacccaatc aacctctatg ctttcttctt                                     1350

```

<210> 11151

<211> 278

<212> PRT

<213> Homo sapiens

<400> 11151

```

Met Pro Gly Gly Pro Ile Pro Pro Gly Phe Phe Gln Gly Pro Pro Gly
 1               5               10               15
Ser Gln Pro Ser Pro His Ala Gln Pro Pro Pro His Asn Pro Ser Ser
 20               25               30
Met Met Gly Pro His Ser Gln Pro Phe Met Ser Pro Arg Tyr Ala Gly
 35               40               45
Gly Pro Arg Pro Pro Ile Arg Met Gly Asn Gln Pro Pro Gly Gly Val
 50               55               60
Pro Gly Thr Gln Pro Leu Pro Asn Ser Met Asp Pro Thr Arg Gln
 65               70               75               80
Gln Gly His Pro Asn Met Gly Gly Ser Met Gln Arg Met Asn Pro Pro
 85               90               95
Arg Gly Met Gly Pro Met Gly Pro Gly Pro Gln Asn Tyr Gly Ser Gly

```

<210> 11152  
 <211> 1498  
 <212> DNA  
 <213> Homo sapiens

**<400> 11152**

gtgtctatgt	caatgtgtct	gtccttcact	cctccattgt	ctgccgccac	tgtgtgtgtct	60
gctgctgctg	ccgtgtgtgc	tgcacgaatc	gccgcagccc	ccagccttgc	gctgctgctgc	120
tacctcctcg	gacagaaaatt	ttatgaataa	gcatacagaag	ccagtgtctaa	caggccagcg	180
gttcaaaaact	cggaaaaaggg	atgaaaaaga	gaaattcgaa	cccacagtct	tcaggggatac	240
acttgtccag	gggcttaatg	aggctggtga	tgaccttgaa	gctgtagcca	aatttctgga	300
ctctacaggc	tcaagattag	attatcgtcg	ctatgcagac	acactcttcg	atatcctgggt	360
ggctggcagt	atgcttgccc	ctggaggaac	gcgcatagat	gatggtgaca	agaccaagat	420
gaccaaccac	tgtgtgtttt	cagcaaatga	agatcatgaa	accatccgaa	actatgctca	480
ggtctttcaat	aaactcatca	ggagatataa	gtatttggag	aaggcatttg	aagatgaaat	540
gaaaaagctt	ctcctcttcc	ttaaagcctt	ttccgaaaca	gagcagacaa	agttggcgat	600
gctgtcgggg	attctgtctg	gcaatggcac	cctgcccgcc	accatcctca	ccagtctctt	660
caccgacagc	ttagtcaaaag	aaggcattgc	ggcctcattt	gctgtcaagc	ttttcaaagc	720
atgggatggca	gaaaaagatg	ccaactctgt	tacctcgtct	ttgagaaaag	ccaacttaga	780

```

caagaggctg cttgaactct ttccagttta cagacagagt gtggatcatt ttgctaaata 840
cttcactgac gcaggcttta aggagctttc cgacttcctc cgagtccagc agtccctggg 900
caccaggaag gaactgcaga aggagctcca ggagcgtctt tctcaggaat gcccgatcaa 960
ggaggtggtg ctttatgtca aagaagaaat gaagaggaat gatcttccag aaacagcagt 1020
gattggtctt ctgtggacat gtataatgaa cgctgttgag tggaacaaga aggaagaact 1080
tgttgcagag caggctctga agcacctgaa gcaatatgct cccctgctgg ccgtgttcag 1140
ctcccaaggc cagtcagagc tgatcctcct ccagaagggt caggaatact gctacgacaa 1200
catccatttc atgaaagcct ttcagaagat tgttggttctc tttataaag ctgatgttct 1260
gagcgaagaa gcaatactga aatggtataa ggaagcacat gttgctaaag gcaaaagtgt 1320
tttcttgac cagatgaaga aatttgttga gtggttacaa aatgcagaag aagaatccga 1380
atcggaagggt gaggaataat aaatggctca acaagcacia tacctagggt accacacacc 1440
actttttgat tgggaatgct gaaccatttg agaagagaaa cttggcttct gttttcgc 1498

```

<210> 11153  
 <211> 419  
 <212> PRT  
 <213> Homo sapiens

<400> 11153

Met	Asn	Lys	His	Gln	Lys	Pro	Val	Leu	Thr	Gly	Gln	Arg	Phe	Lys	Thr	1	5	10	15
Arg	Lys	Arg	Asp	Glu	Lys	Glu	Lys	Phe	Glu	Pro	Thr	Val	Phe	Arg	Asp	20	25	30	
Thr	Leu	Val	Gln	Gly	Leu	Asn	Glu	Ala	Gly	Asp	Asp	Leu	Glu	Ala	Val	35	40	45	
Ala	Lys	Phe	Leu	Asp	Ser	Thr	Gly	Ser	Arg	Leu	Asp	Tyr	Arg	Arg	Tyr	50	55	60	
Ala	Asp	Thr	Leu	Phe	Asp	Ile	Leu	Val	Ala	Gly	Ser	Met	Leu	Ala	Pro	65	70	75	80
Gly	Gly	Thr	Arg	Ile	Asp	Asp	Gly	Asp	Lys	Thr	Lys	Met	Thr	Asn	His	85	90	95	
Cys	Val	Phe	Ser	Ala	Asn	Glu	Asp	His	Glu	Thr	Ile	Arg	Asn	Tyr	Ala	100	105	110	
Gln	Val	Phe	Asn	Lys	Leu	Ile	Arg	Arg	Tyr	Lys	Tyr	Leu	Glu	Lys	Ala	115	120	125	
Phe	Glu	Asp	Glu	Met	Lys	Lys	Leu	Leu	Leu	Phe	Leu	Lys	Ala	Phe	Ser	130	135	140	
Glu	Thr	Glu	Gln	Thr	Lys	Leu	Ala	Met	Leu	Ser	Gly	Ile	Leu	Leu	Gly	145	150	155	160
Asn	Gly	Thr	Leu	Pro	Ala	Thr	Ile	Leu	Thr	Ser	Leu	Phe	Thr	Asp	Ser	165	170	175	
Leu	Val	Lys	Glu	Gly	Ile	Ala	Ala	Ser	Phe	Ala	Val	Lys	Leu	Phe	Lys	180	185	190	
Ala	Trp	Met	Ala	Glu	Lys	Asp	Ala	Asn	Ser	Val	Thr	Ser	Ser	Leu	Arg	195	200	205	
Lys	Ala	Asn	Leu	Asp	Lys	Arg	Leu	Leu	Glu	Leu	Phe	Pro	Val	Asn	Arg	210	215	220	

003220.69462960

-4609/13211-

Gln Ser Val Asp His Phe Ala Lys Tyr Phe Thr Asp Ala Gly Leu Lys  
225 230 235 240  
Glu Leu Ser Asp Phe Leu Arg Val Gln Gln Ser Leu Gly Thr Arg Lys  
245 250 255  
Glu Leu Gln Lys Glu Leu Gln Glu Arg Leu Ser Gln Glu Cys Pro Ile  
260 265 270  
Lys Glu Val Val Leu Tyr Val Lys Glu Glu Met Lys Arg Asn Asp Leu  
275 280 285  
Pro Glu Thr Ala Val Ile Gly Leu Leu Trp Thr Cys Ile Met Asn Ala  
290 295 300  
Val Glu Trp Asn Lys Lys Glu Glu Leu Val Ala Glu Gln Ala Leu Lys  
305 310 315 320  
His Leu Lys Gln Tyr Ala Pro Leu Leu Ala Val Phe Ser Ser Gln Gly  
325 330 335  
Gln Ser Glu Leu Ile Leu Leu Gln Lys Val Gln Glu Tyr Cys Tyr Asp  
340 345 350  
Asn Ile His Phe Met Lys Ala Phe Gln Lys Ile Val Val Leu Phe Tyr  
355 360 365  
Lys Ala Asp Val Leu Ser Glu Glu Ala Ile Leu Lys Trp Tyr Lys Glu  
370 375 380  
Ala His Val Ala Lys Gly Lys Ser Val Phe Leu Asp Gln Met Lys Lys  
385 390 395 400  
Phe Val Glu Trp Leu Gln Asn Ala Glu Glu Glu Ser Glu Ser Glu Gly  
405 410 415  
Glu Glu Asn

<210> 11154  
<211> 1450  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (67).. (900)

<400> 11154  
tacgtgaagc accgacacaa actggagaat ggtctggctg cgctcagtc cttagcaag 60  
ggctccatgg aggctggccc ttacctgccc cgagccctgc agcagcctct ggaacagctg 120  
actcggatatg ggcggctcct ggaggagctc ctgagggaag ctgggcctga gctcagttct 180  
gagtgccggg cccttggggc tgcgtgtacag ctgctccggg aacaagaggc ccgtggcaga 240  
gacctgctgg ccgtggaggc ggtgcgtggc tgtgagatag atctgaagga gcaggacag 300  
ctcttgcac gagacccctt cactgtcatc tgtggccgaa agaagtgcct tcgccatgtc 360  
ttctcttctg agcatctcct cctgttcagc aagctcaagg gccctgaagg ggggtcagag 420  
atgtttgttt acaagcaggc cttaagact gctgatattg ggctgacaga aaacatcggg 480  
gacagcggac tctgctttga gttgtggtt cggcggcggc gtgcacgaga ggcatacact 540  
ctgcaggcaa cctcaccaga gatcaaactc aagtggacaa gttctattgc ccagctgctg 600

09629469.072300



```

tggagacagg cagcccacaa caaggagctc cgagtgcagc agatgggtgtc catggggcatt 660
gggaataaac ccttcctgga catcaaagcc cttgggggagc ggacgctgag tgccctgctc 720
actggaagag ccccagaaac acttgactct tctggagatg tgtccccagg accaagaaac 780
agccccagcc tgcaaccccc ccaccctggg agcagcactc ccaccctggc cagtgcaggg 840
atcttagggc tatcccgaca gagtcatgct cgagccctga gtgacccac cagcctctg 900
tgacctggag aagatccaga acttgctgctc agcttctcct ctcagcacac tttgggctgg 960
gatggcagtg gggcataatg gagccctggg cgatcgtgta atttcttccc tctgcttcct 1020
ggacacagag gaggtctaac gaccagagta ttgccctgcc accactatct ctagtctccc 1080
tagcttggtg ccttctcctg caggagtcag agcagccaca ttgcttgctt tcataccctg 1140
gaggtgggga agttatccct cttccggtgc tttcccatcc tgggccactg tatccaggac 1200
atcactccca tgccagccct ccttggcagc ccattgtctc ctcttttctc accccctgac 1260
tttccttgag aagaatcctc tctgccaggt caactggagt ccctggtgac tccattctga 1320
ggtgtcacia gcaatgaagc tatgcaaaca ataggagggt gtgacagggg aaccgtagac 1380
tttatatatg taattactgt tattataata ctattgttat attaaatgta tttactcaca 1440
ctttgcctct                                     1450

```

<210> 11155  
 <211> 278  
 <212> PRT  
 <213> Homo sapiens

<400> 11155

Met	Glu	Ala	Gly	Pro	Tyr	Leu	Pro	Arg	Ala	Leu	Gln	Gln	Pro	Leu	Glu
1				5					10					15	
Gln	Leu	Thr	Arg	Tyr	Gly	Arg	Leu	Leu	Glu	Glu	Leu	Leu	Arg	Glu	Ala
			20					25					30		
Gly	Pro	Glu	Leu	Ser	Ser	Glu	Cys	Arg	Ala	Leu	Gly	Ala	Ala	Val	Gln
		35				40					45				
Leu	Leu	Arg	Glu	Gln	Glu	Ala	Arg	Gly	Arg	Asp	Leu	Leu	Ala	Val	Glu
	50				55					60					
Ala	Val	Arg	Gly	Cys	Glu	Ile	Asp	Leu	Lys	Glu	Gln	Gly	Gln	Leu	Leu
65				70				75						80	
His	Arg	Asp	Pro	Phe	Thr	Val	Ile	Cys	Gly	Arg	Lys	Lys	Cys	Leu	Arg
			85					90						95	
His	Val	Phe	Leu	Phe	Glu	His	Leu	Leu	Leu	Phe	Ser	Lys	Leu	Lys	Gly
		100					105						110		
Pro	Glu	Gly	Gly	Ser	Glu	Met	Phe	Val	Tyr	Lys	Gln	Ala	Phe	Lys	Thr
		115				120						125			
Ala	Asp	Met	Gly	Leu	Thr	Glu	Asn	Ile	Gly	Asp	Ser	Gly	Leu	Cys	Phe
	130				135					140					
Glu	Leu	Trp	Phe	Arg	Arg	Arg	Arg	Ala	Arg	Glu	Ala	Tyr	Thr	Leu	Gln
145				150						155				160	
Ala	Thr	Ser	Pro	Glu	Ile	Lys	Leu	Lys	Trp	Thr	Ser	Ser	Ile	Ala	Gln
			165					170					175		
Leu	Leu	Trp	Arg	Gln	Ala	Ala	His	Asn	Lys	Glu	Leu	Arg	Val	Gln	Gln
		180					185					190			
Met	Val	Ser	Met	Gly	Ile	Gly	Asn	Lys	Pro	Phe	Leu	Asp	Ile	Lys	Ala

09629469.072800

-4611/13211-

195	200	205
Leu Gly Glu Arg Thr Leu Ser Ala Leu Leu Thr Gly Arg Ala Pro Glu		
210	215	220
Thr Leu Asp Ser Ser Gly Asp Val Ser Pro Gly Pro Arg Asn Ser Pro		
225	230	235
Ser Leu Gln Pro Pro His Pro Gly Ser Ser Thr Pro Thr Leu Ala Ser		
245	250	255
Arg Gly Ile Leu Gly Leu Ser Arg Gln Ser His Ala Arg Ala Leu Ser		
260	265	270
Asp Pro Thr Thr Pro Leu		
275		

<210> 11156  
<211> 1120  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (9).. (1118)

<400> 11156  
ctgactttat gtctttttacc tcacacattg atgagttata tgaaagtgc taaaaagcagt 60  
ctggaggaaa gggtgcagat tatattcctc aactggccaa attcagtcct gatttgtggg 120  
gtgtgtctgt ttgtacagta gatggacaga gacattctac tggagatacc aaagttccct 180  
tctgtcttca gtccgtgtgta aaacctttga aatatgccat tgctgttaat gatcttggaa 240  
ctgaatatgt gcatcgatat gttggaaaag agccgagtgg actaagattc aacaaactat 300  
ttttgaatga agatgataaa ccacataatc ctatggtaaa tgctggagca attgttgtga 360  
cttcactaat aaagcaagga gtaaataatg ctgaaaaatt tgactatgtc atgcagtttt 420  
tgaataagat ggctggtaat gaatatgttg gattcagtaa tgcaacgttt cagtctgaaa 480  
gagaaagtgg agatcgaaat ttgcaatag gatattactt aaaagaaaag aagtgttttc 540  
cagaaggcac agacatgggt ggtatattag acttctactt ccagctgtgc tccattgaag 600  
tgacttgtga atcagccagt gtgatggctg cgacactggc taatgggtgt ttctgcccaa 660  
ttactgggtga aagagtactg agccctgaag cagttcgaaa tacattgagt ttgatgcatt 720  
cctgtggcat gtatgacttc tcagggcagt ttgctttcca tgttggctct cctgcaaaat 780  
ctggagttgc tgggggcatt cttttagttg tccccaatgt tatgggtatg atgtgctggt 840  
ctcctcctct ggataagatg ggcaacagt ttaagggaat tcacttttgt cacgatcttg 900  
tttctctgtg taatttccat aactatgata atttgagaca ctttgcaaaa aaacttgatc 960  
ctcgaagaga aggtggtgat caaaggcatt cctttggacc attggactat gaaagtctcc 1020  
aacaagaact tgcttttaaaa gagacagtat ggaaaaaagt gtcacctgag tcaaatgagg 1080  
acatctctac aactgtagta tatagaatgg aaagtctggg 1120

<210> 11157  
<211> 370  
<212> PRT  
<213> Homo sapiens

003220.69462960

<400> 11157

Met	Ser	Phe	Thr	Ser	His	Ile	Asp	Glu	Leu	Tyr	Glu	Ser	Ala	Lys	Lys
1				5					10					15	
Gln	Ser	Gly	Gly	Lys	Val	Ala	Asp	Tyr	Ile	Pro	Gln	Leu	Ala	Lys	Phe
			20					25					30		
Ser	Pro	Asp	Leu	Trp	Gly	Val	Ser	Val	Cys	Thr	Val	Asp	Gly	Gln	Arg
		35					40					45			
His	Ser	Thr	Gly	Asp	Thr	Lys	Val	Pro	Phe	Cys	Leu	Gln	Ser	Cys	Val
	50					55					60				
Lys	Pro	Leu	Lys	Tyr	Ala	Ile	Ala	Val	Asn	Asp	Leu	Gly	Thr	Glu	Tyr
65					70					75					80
Val	His	Arg	Tyr	Val	Gly	Lys	Glu	Pro	Ser	Gly	Leu	Arg	Phe	Asn	Lys
				85					90					95	
Leu	Phe	Leu	Asn	Glu	Asp	Asp	Lys	Pro	His	Asn	Pro	Met	Val	Asn	Ala
			100					105					110		
Gly	Ala	Ile	Val	Val	Thr	Ser	Leu	Ile	Lys	Gln	Gly	Val	Asn	Asn	Ala
		115					120					125			
Glu	Lys	Phe	Asp	Tyr	Val	Met	Gln	Phe	Leu	Asn	Lys	Met	Ala	Gly	Asn
	130					135					140				
Glu	Tyr	Val	Gly	Phe	Ser	Asn	Ala	Thr	Phe	Gln	Ser	Glu	Arg	Glu	Ser
145					150					155					160
Gly	Asp	Arg	Asn	Phe	Ala	Ile	Gly	Tyr	Tyr	Leu	Lys	Glu	Lys	Lys	Cys
				165					170					175	
Phe	Pro	Glu	Gly	Thr	Asp	Met	Val	Gly	Ile	Leu	Asp	Phe	Tyr	Phe	Gln
			180					185					190		
Leu	Cys	Ser	Ile	Glu	Val	Thr	Cys	Glu	Ser	Ala	Ser	Val	Met	Ala	Ala
		195					200					205			
Thr	Leu	Ala	Asn	Gly	Gly	Phe	Cys	Pro	Ile	Thr	Gly	Glu	Arg	Val	Leu
	210					215					220				
Ser	Pro	Glu	Ala	Val	Arg	Asn	Thr	Leu	Ser	Leu	Met	His	Ser	Cys	Gly
225					230					235					240
Met	Tyr	Asp	Phe	Ser	Gly	Gln	Phe	Ala	Phe	His	Val	Gly	Leu	Pro	Ala
				245					250					255	
Lys	Ser	Gly	Val	Ala	Gly	Gly	Ile	Leu	Leu	Val	Val	Pro	Asn	Val	Met
			260					265					270		
Gly	Met	Met	Cys	Trp	Ser	Pro	Pro	Leu	Asp	Lys	Met	Gly	Asn	Ser	Val
		275					280					285			
Lys	Gly	Ile	His	Phe	Cys	His	Asp	Leu	Val	Ser	Leu	Cys	Asn	Phe	His
	290					295					300				
Asn	Tyr	Asp	Asn	Leu	Arg	His	Phe	Ala	Lys	Lys	Leu	Asp	Pro	Arg	Arg
305					310					315					320
Glu	Gly	Gly	Asp	Gln	Arg	His	Ser	Phe	Gly	Pro	Leu	Asp	Tyr	Glu	Ser
				325					330					335	
Leu	Gln	Gln	Glu	Leu	Ala	Leu	Lys	Glu	Thr	Val	Trp	Lys	Lys	Val	Ser
			340					345					350		
Pro	Glu	Ser	Asn	Glu	Asp	Ile	Ser	Thr	Thr	Val	Val	Tyr	Arg	Met	Glu
		355					360						365		

003220 69462960

Ser Leu  
370

<210> 11158  
<211> 1344  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (58).. (1104)

<400> 11158  
ccctatctgg aaggcattct ctcccagggtg attcatctgg agaaaatcac tagtgaaatg 60  
ggttctgcgt cacaggctaa tatccgtctc acatctctta aaaagacact ggctaccaca 120  
cttgcacccc gagtccgtgt gcccgccatc aaaaaaactt acaagcagat tgagaagaac 180  
tggaagaatc acatgggtcc gtttatgagc atcttgcaag agcatattgg ggtgatgaag 240  
aaggaagagc tcacctccca tcagtctcag ctaaccgcct ttttcctgga ggccctggac 300  
ttccgagccc agcactctga gaacgatctg gaggaagttg gaaaaacgga aaattgtatc 360  
attgactgtc tagtagccat ggttgtcaaa ctttccgagg tcacattcag gccctgttgc 420  
ttcaagctgt ttgattgggc taaaacagaa gatgccccaa aggacagggt gttgacattt 480  
tacaacttgg cagattgcat tgctgaaaag ctgaaagggc tttttactct gtttgccggc 540  
cacttagtga agccttttgc tgacaccttg aaccagggtga acatctccaa aacagatgaa 600  
gcattttttg actctgaaaa tgaccctgaa aagtgtctgt tgctgttgca gtttattttg 660  
aactgtttat acaaaatctt cctttttgat acccagcatt ttataagtaa agagagagca 720  
gaagccttga tgatgcctct ggtggatcag ctggaaaaca ggcttggggg agaagagaaa 780  
ttccaggaac ggttgacaaa gcacctgata ccatgcatcg cacagttttc ggtggccatg 840  
gcggatgact ctctttggaa accactgaac taccagattc tgctaaagac gagagactcc 900  
tcgcctaagg ttcgatttgc tgctttgatt actgtgttag cactggctga aaaactaaag 960  
gagaattata ttgtcttgcct accagaatcc attcctttct tagcagagtt gatggaagat 1020  
gaatgtgaag aagtagaaca tcagtgccaa aagactattc agcaactgga aactgtcctg 1080  
ggagagccac tccagagcta tttctaagac tttctgtggt gtttcatact ctactcagag 1140  
ttcacactca tatttcatat ttttattttt ggggtgttggg tgccatgtta cttttggtgc 1200  
cttaatacac ctacttggat tacttacaaa tgttttatca cttctttaca aaatccccac 1260  
ctggcttgtg ctgccacata agcctctcct gcctatcgta tagagctgca gaaagagtaa 1320  
atgatacacg gtatttttat acag 1344

<210> 11159  
<211> 349  
<212> PRT  
<213> Homo sapiens

<400> 11159  
Met Gly Ser Ala Ser Gln Ala Asn Ile Arg Leu Thr Ser Leu Lys Lys  
1 5 10 15  
Thr Leu Ala Thr Thr Leu Ala Pro Arg Val Leu Leu Pro Ala Ile Lys

003270-59462950

<210> 11160  
<211> 1202  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (89).. (970)

<400> 11160

```

gaattacact attgtactgg agcttatcgg atttcacctg tagatgtaaa tagtagaact 60
tcctcctgcc ttactaattt tcttctaaat ggtcgttctg ttttattgga acaaccacga 120
aagtcagggt ctaaagtcac tagtcatatg cttagtagcc atggaggaga gatttttttt 180
gcacgtcctt agcagttctc gatccattct agaagatcca cttcaatta gtgaaggatg 240
tggaggaaga gttacagact accggattac agtagttcca ttagccagtg ttattgtgaa 300
agaatctctg acagaagaag atgtgttaaa ctgtcaaaaa acaatataca acttagttga 360
tatggaaaaga aaaaatgata ctctacctat ttccacagtt ggtacaagag gaaagggccc 420
taaaagagat gaacaatacc gtatcatgtg gaatgaatta gaaacccttg tcagagccca 480
tatcaacaac tcagagaaac atcaaagagt cttggaatgt ctgatggcat gcaggagcaa 540
accccagaa gaggaagaac gaaagaaacg aggaagaaag agggaagaca aagaggacaa 600
gtcagagaaa gcagtgaag attatgaaca ggaaaagtct tggcaagact cagagagatt 660
aaaaggaatc ttagagcgtg gaaaagaaga attggctgaa gctgagatta taaaagattc 720
gcctgattcc ccagaacctc caaacaaaaa accccttggt gaaatggatg aaactccaca 780
agtggaaaaa tcaaaagggc cagtgtcgtt attatccttg tggagtaata gaatcaatac 840
tgccaattcc agaaaacatc aggaatttgc tggacgttg aactctgtta ataacagagc 900
tgaactatat caacatctta aagaggaaaa tgggatggag acaacagaaa atggaaaagc 960
cagccggcag tgaagagtga cttgaagaac taaatttagc atattgcaaa aatattttgt 1020
gcggaattcg atataagtac ttttacagca agatgggata gttatgttgc ctggactggg 1080
ttttacattt ttaaaatatt tcagctgtca tttttgtact aattataaaa ttggcacata 1140
attcaaaaat atacatttga gatgatttgt cctcccaaat tatacaagtt tttttatgg 1200
tg
1202

```

<210> 11161  
<211> 294  
<212> PRT  
<213> Homo sapiens

<400> 11161

```

Met Val Val Leu Phe Tyr Trp Asn Asn His Glu Ser Gln Val Leu Lys
 1          5          10          15
Ser Leu Val Ile Cys Leu Val Ala Met Glu Glu Arg Phe Phe Leu His
          20          25          30
Val Leu Ser Ser Ser Arg Ser Ile Leu Glu Asp Pro Pro Ser Ile Ser
          35          40          45
Glu Gly Cys Gly Gly Arg Val Thr Asp Tyr Arg Ile Thr Val Val Pro
          50          55          60
Leu Ala Ser Val Ile Val Lys Glu Ser Leu Thr Glu Glu Asp Val Leu
          65          70          75          80
Asn Cys Gln Lys Thr Ile Tyr Asn Leu Val Asp Met Glu Arg Lys Asn
          85          90          95
Asp Pro Leu Pro Ile Ser Thr Val Gly Thr Arg Gly Lys Gly Pro Lys
          100          105          110

```

008220.69462960

Arg Asp Glu Gln Tyr Arg Ile Met Trp Asn Glu Leu Glu Thr Leu Val  
115 120 125  
Arg Ala His Ile Asn Asn Ser Glu Lys His Gln Arg Val Leu Glu Cys  
130 135 140  
Leu Met Ala Cys Arg Ser Lys Pro Pro Glu Glu Glu Glu Arg Lys Lys  
145 150 155 160  
Arg Gly Arg Lys Arg Glu Asp Lys Glu Asp Lys Ser Glu Lys Ala Val  
165 170 175  
Lys Asp Tyr Glu Gln Glu Lys Ser Trp Gln Asp Ser Glu Arg Leu Lys  
180 185 190  
Gly Ile Leu Glu Arg Gly Lys Glu Glu Leu Ala Glu Ala Glu Ile Ile  
195 200 205  
Lys Asp Ser Pro Asp Ser Pro Glu Pro Pro Asn Lys Lys Pro Leu Val  
210 215 220  
Glu Met Asp Glu Thr Pro Gln Val Glu Lys Ser Lys Gly Pro Val Ser  
225 230 235 240  
Leu Leu Ser Leu Trp Ser Asn Arg Ile Asn Thr Ala Asn Ser Arg Lys  
245 250 255  
His Gln Glu Phe Ala Gly Arg Leu Asn Ser Val Asn Asn Arg Ala Glu  
260 265 270  
Leu Tyr Gln His Leu Lys Glu Glu Asn Gly Met Glu Thr Thr Glu Asn  
275 280 285  
Gly Lys Ala Ser Arg Gln  
290

<210> 11162  
<211> 1169  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (28).. (945)

<400> 11162  
agattgctcc aatttgtgtca gcgaactatg gctcttctctg taggaacgagg aatgtttacc 60  
ttgtttttcgt accatcctgt tccaacagag ccattgccta ttccataaatt gaatctgact 120  
gggcgtgccc ctctcgcggaa cacaacagta gaccttaata gtggaaacat cgatgtgcct 180  
cccaatatga caagctgggc cagctttcat aatggtgtgg ctgctggcct gaagatagct 240  
cctgcctccc agatcgactc agcttggatt gtttacaata agcccaagca tgcctgagttg 300  
gccaatgagt atgctggcct tctcatggct ctgggtttga atgggcacct taccaagctg 360  
gcgactotca atatccatga ctacttgacc aaggggccatg aaatgacaag catgtggactg 420  
ctacttgggtg tttctgctgc aaaactaggc accatggata tgtctattac toggcttctt 480  
agcattcgca ttctgtctct cttaccccca acgtccacag agctggatgt tctcacaat 540  
gtccaagtgg ctgcagtggg tggcattggc cttgtatatc aaggggacagc tcacagacat 600  
actgcagaag tctgtttggc tgagatagga cggcctcctg gtcttgaaat ggaatactgc 660  
actgacagag agtcatactc cttagctgct ggcttggccc tgggcatggt ctgcttgggg 720

008220.69162960

```

catggcagca atttgatagg tatgtctgat ctcaatgtgc ctgagcagct ctatcagtac 780
atggttggag gacataggcg ctttcaaaca ggaatgcata gggagaaaca taaatcacca 840
agttatcaaa tcaaagaagg agataccata aatgtggatg tgacttgtcc aggtgctact 900
ctagctttgg ctatgatcta cttaaaaaacc aataacagtg tcttctagga agcccagaca 960
catggagaag ttctgagtgt ttggccgat agtcccagat gaggttccag caacagctgg 1020
gatcacccat gagatgtgag tgaggaaggc ttgagatgg tticagccct agccaccact 1080
gacctcataa gagaccacaa gaatgagaat cacctggcca agcctagcag accttcagaa 1140
ttcagaaata aaataattca tcttatttt 1169

```

<210> 11163

<211> 306

<212> PRT

<213> Homo sapiens

<400> 11163

```

Met Ala Leu Pro Val Gly Arg Gly Met Phe Thr Leu Phe Ser Tyr His
 1          5          10          15
Pro Val Pro Thr Glu Pro Leu Pro Ile Pro Lys Leu Asn Leu Thr Gly
          20          25          30
Arg Ala Pro Pro Arg Asn Thr Thr Val Asp Leu Asn Ser Gly Asn Ile
          35          40          45
Asp Val Pro Pro Asn Met Thr Ser Trp Ala Ser Phe His Asn Gly Val
          50          55          60
Ala Ala Gly Leu Lys Ile Ala Pro Ala Ser Gln Ile Asp Ser Ala Trp
          65          70          75          80
Ile Val Tyr Asn Lys Pro Lys His Ala Glu Leu Ala Asn Glu Tyr Ala
          85          90          95
Gly Phe Leu Met Ala Leu Gly Leu Asn Gly His Leu Thr Lys Leu Ala
          100          105          110
Thr Leu Asn Ile His Asp Tyr Leu Thr Lys Gly His Glu Met Thr Ser
          115          120          125
Ile Gly Leu Leu Leu Gly Val Ser Ala Ala Lys Leu Gly Thr Met Asp
          130          135          140
Met Ser Ile Thr Arg Leu Leu Ser Ile Arg Ile Pro Ala Leu Leu Pro
          145          150          155          160
Pro Thr Ser Thr Glu Leu Asp Val Pro His Asn Val Gln Val Ala Ala
          165          170          175
Val Val Gly Ile Gly Leu Val Tyr Gln Gly Thr Ala His Arg His Thr
          180          185          190
Ala Glu Val Leu Leu Ala Glu Ile Gly Arg Pro Pro Gly Pro Glu Met
          195          200          205
Glu Tyr Cys Thr Asp Arg Glu Ser Tyr Ser Leu Ala Ala Gly Leu Ala
          210          215          220
Leu Gly Met Val Cys Leu Gly His Gly Ser Asn Leu Ile Gly Met Ser
          225          230          235          240
Asp Leu Asn Val Pro Glu Gln Leu Tyr Gln Tyr Met Val Gly Gly His
          245          250          255

```

0002270169462950



Arg Arg Phe Gln Thr Gly Met His Arg Glu Lys His Lys Ser Pro Ser  
 260 265 270  
 Tyr Gln Ile Lys Glu Gly Asp Thr Ile Asn Val Asp Val Thr Cys Pro  
 275 280 285  
 Gly Ala Thr Leu Ala Leu Ala Met Ile Tyr Leu Lys Thr Asn Asn Ser  
 290 295 300  
 Val Phe  
 305

<210> 11164

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 11164

```
acctactgaa gtggaggagg tgggtccccgc actggaaccc acagaaacgc tgctgagtga 60
gaaggagata aacgcaaggg aagagagcct tgtggaagag ctgtcccctg ccagcgagaa 120
gaagcccgtg ccgccgtctg agggcaagtc tagactgtcc cccgccggtg agatgaagcc 180
catgccgctg tctgagggca agtctatact gctgtttgga ggggctgctg ctgttgccat 240
cctggcagtg gccatcgggg tagccctggc tctgagaaag aaataggagg cttttcagaa 300
gagaaagaca gaaggatgta aggttggagt tgtattggct ggaatttgaa cctccagcag 360
ctgtctggac atttgtggaa cactctggga taattgggga cttctgctca acatggcagt 420
ggcatgttag gcatgttagg gcttgagggt gggcattcac attcatctga ctgtaaatcc 480
caagggcctc cgctcatgct aaattgagaa tcttaggggt aaagcaccac ctcaggacc 540
gggttgctca gccttggcac tagtgctgtt ctgaccattc tctgtgttgg ggctgtcctg 600
tgtatgggtg gctccacca ctagatgcca gtggcaccac cctccagaga tgacaaacga 660
aaatgtctct agacattgcc aaatgtcccc tgtgaacatc cctattgag acccactgct 720
ttagcgagag agggtttact taggaagaat tgggatagaa attcccagct gagagaactt 780
agctgtggct cctcagctac tgacttctta gctcttaatc ccttagaat ttcattcttc 840
tcgatgagca ggctctgcac ccactttttt ttgccccct gccctcatc ctggagtgtg 900
agggtgctcg cccgtactct cagctgcctc tcagggaactg cactgttcct cttcaccacc 960
aggttcctgc taagatccca cgggcgaggg cttgctctgg actcagacct gtcaagtccc 1020
cgaagcttcc tgcagctcca ccttgtaaaa atgctgcctt tgggaatctt cgaaatatgt 1080
acacagagaa aatcacatga aggagacctg ggggtccccc ttgtgagtgc aactgcaagt 1140
aactctggct agagagacac atgtgtcttg tgtcaaggca ggaggataac ctggatgacc 1200
ttctgaggtc tcttcagccc ttttcgctag tggtcaccca ccaccatggt tacttgccag 1260
caacatctct attgctggat ggtccctgtc tataaccttg ggctagtata ttttttccaa 1320
tatgggacct tagtcttact actgatgagt tctatgggtc tottgctagg gggtaaggat 1380
ttttattctt gggcttatag agccagttag atcataattc ttatgaaata gagagtgtcc 1440
taaatatcac tgaaat 1456
```

<210> 11165

<211> 1695

<212> DNA

<213> Homo sapiens

09629459.072800

<220>  
<221> CDS  
<222> (88).. (558)

<400> 11165

```

acaaacttat atatatactc caaaaagtct tcaacaagca gacgacagca coctcttaat 60
aagcatctct ttaagccttc cactttcatg acttcacatg aaccgccagt gtatatggat 120
gaagatgatg accgatcttg ttttcatagc cacatgaaca ctgctgttga agatgcatca 180
gatgacgaaa gtattcctat catgtatagg aatttacctg aatataaaga actattacag 240
tttaaaaagt taaagaagca gaaacttcag caaatgcaag ctgaaagtgg atttgtgcaa 300
catgtgggct ttaagtgtga taactgtggc atagaaccca tccagggtgt tcgggtggcat 360
tgccaggatt gtcctccaga aatgtctttg gatttctgtg attcttgttc agactgtcta 420
catgaaacag atattcacaa ggaagatcac caattagaac ctatttatag gtcagagaca 480
ttcttagaca gagactactg tgtgtctcag ggcaccagtt acaattacct tgacccaaac 540
tactttccag caaacagatg acatggaaga gaacatcatt tactagtccct cttcaacacg 600
tagcaatggg atcattgtta attatgtgca cagtttggaag agattctctg ctttcccaga 660
aatgacactc acagcatgag agcttccctga gtgttctcgt caagtacagc tctgcaccgt 720
tgtggctcta gatcactggt cagcagctga acattcctgg tgagcaaagg tttccctggg 780
gaatttttca ccactgcgtt ttaggtgggt atcttaaagt ggtgagatgg aacgagagca 840
cacattaaag agagagtaaa ttccaaaggt ttcaaagaac ttggtcataa atatgataat 900
gagaagacaa agtattttata ttaaaacagt ttagtagcct tcagttttgt gaaaatagtt 960
ttcagcacag aaactgactt ctttagacaa agttttaacc aatgatgggt tttgcttcta 1020
ggatatacac tttaaaagaa ctcaactgtc cagtgggtgg cattgatggc ctttagtaaa 1080
ttggagctgc ttaatcatat tgatatctaa tttcttttaa ccacaatgaa ttgtccttaa 1140
ttaccaacag tgaagcacta caggaggcaa ctgtggcatt gcttccttaa ccagctcatg 1200
gtgtgtgaat gttataaaat tgctactcag atatatTTTT taaatgtaat gttatataag 1260
atgatcatgt gatgtgtaca aactatgggt aaaagtgccg gtggtagtaa ctgtgtaaag 1320
tttctaattc acaacattaa ttccttttaa atacacagcc ttctgcctct gtatttggag 1380
ttgtcagtac aactcatcaa agaaaactgc ctaatataaa aatcatatat atggtaataa 1440
tttccctctt ttgtagtctg cacaagatcc ataaaagatt gtatttttat tactatttaa 1500
acaagtgatt aaatttagtc tgcacagtga gcaaggggtc acatgcattc ttttatactg 1560
ctggattttg ttgtgcatca tttaaaacat tttgtatgtt tcttcttctc tgtgtataca 1620
gtatgttctt gaatgatgtt catttgtcag gagaactgtg agaaataaac tatgtggata 1680
ctgtctgttt atatt                                     1695

```

<210> 11166  
<211> 157  
<212> PRT  
<213> Homo sapiens

<400> 11166

```

Met Thr Ser His Glu Pro Pro Val Tyr Met Asp Glu Asp Asp Asp Arg
 1             5             10             15
Ser Cys Phe His Ser His Met Asn Thr Ala Val Glu Asp Ala Ser Asp
          20             25             30
Asp Glu Ser Ile Pro Ile Met Tyr Arg Asn Leu Pro Glu Tyr Lys Glu
      35             40             45

```

Leu	Leu	Gln	Phe	Lys	Lys	Leu	Lys	Lys	Gln	Lys	Leu	Gln	Gln	Met	Gln
50						55					60				
Ala	Glu	Ser	Gly	Phe	Val	Gln	His	Val	Gly	Phe	Lys	Cys	Asp	Asn	Cys
65					70				75						80
Gly	Ile	Glu	Pro	Ile	Gln	Gly	Val	Arg	Trp	His	Cys	Gln	Asp	Cys	Pro
				85				90						95	
Pro	Glu	Met	Ser	Leu	Asp	Phe	Cys	Asp	Ser	Cys	Ser	Asp	Cys	Leu	His
			100					105					110		
Glu	Thr	Asp	Ile	His	Lys	Glu	Asp	His	Gln	Leu	Glu	Pro	Ile	Tyr	Arg
		115					120					125			
Ser	Glu	Thr	Phe	Leu	Asp	Arg	Asp	Tyr	Cys	Val	Ser	Gln	Gly	Thr	Ser
	130					135						140			
Tyr	Asn	Tyr	Leu	Asp	Pro	Asn	Tyr	Phe	Pro	Ala	Asn	Arg			
145					150					155					

<210> 11167

<211> 1387

<212> DNA

<213> Homo sapiens

<400> 11167

```

aggctcagat gtcacagggt ttctatttgc tgggctggag tgtagtggca tgatcatggc 60
tcactatagc cttgacttcc tgggctcaag ogatccttcc gcctcagcct cctgagtagc 120
tgggactaca gagacgggggt ttctgtcttg tgaccaggct ggaatgcaat ggctgtgatc 180
cggctcaccg caacctccga cctctgggtt caagtgttcc tcctgcctcc gccatttca 240
tcttattgtc tcctttactg tgcaggagct tggatgtagt cccatttatt tattttgagc 300
ttttgatatg atatccaaaa aaatcattgc caaggccagt gtccaggagc ttttccctg 360
ggctgtaaga gttttatagt ttctattttt atatttaggt cttttatcca ttttgattg 420
attttttggt tgtaatagaa gatattgggtc cagtttccatt cttttgcatg tggaaatcta 480
gtttatttagc accatttatt gaagggatta tcttttctcc attgtgtcct cttggtacct 540
tcataaaaaa ttagttgacc catatgtgtt tggatttgtt tctggggtct ctattctgtt 600
tcactgggtc atgtgtctgt ttgtatgcca gtatcatact gttttgatta ctatagcttt 660
gtaataataa ttcaaatacag gaagtgtgat gcccccaact ttcttttctt cttcagcatt 720
gttttggtta ctcagggtct tttatgggtta ctcagggtct tttatgggtc cacatgaatt 780
ttaggattgt ttcttctttt gctgtgaaga atgacattgg ggttttgata aggattgttg 840
agtttctcat ctttactttt tttcttaaat aaaactaagt tagataaggt gctttgtgga 900
tagtgagtcc gcttcattgc tgtgctgggt aacacccttg gtcagttggt gaggaggccc 960
ccaccagggt gggccaggaa gagactgggt aggggtgagca ctgtgcttta gcaagagcaa 1020
aggtccatgg ggtgactcgg gatgagaaat gaggagcagg gggcattgct gcttccttcc 1080
cctctccctc ccctgcatgt cccctccccc tgccacatcc cccaccccag cttgtcacac 1140
cccattactg cagactctag tctgctgggt ttgccagaga atcctccgca atagaggcat 1200
ggggcagggg ctgtattgcg gaaagagagc aaacctctgc ccttctctga gcctcagtgt 1260
catctgtaaa atgatgacag ggaaccaaat gatctcagag tatctgggtg gtgtcttgtc 1320
tccctcagaa atgttgcatt tagagcagtg cacacagtag acacttaata aatgccattg 1380
accatct

```

09629469.072800

<210> 11168  
 <211> 1465  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (259).. (792)

<400> 11168  
 cacgaaatac gagaggcaat ccagcatcca gcagatgaga agttgcaaga gaaggcatgg 60  
 ggtgcagttg ttccactagt aggcaaatta aagaaatatt acgaattttc tcagagggtta 120  
 gaagcagcat taagagggtc tctggggagcc ttaacaagta ccccatattc tcccaccag 180  
 catctagagc gagagcaggc tcttgctaaa cagtttgagc aaattcttca tttcacactc 240  
 cggtttgatg aactcaagat gacaaatcct gccatacaga atgatttcag ctattataga 300  
 agaacattga gtcgtatgag gattaacaat gtaccggcag aaggagaaaa tgaagtaaat 360  
 aatgaattgg caaatcgaat gtctttgttt tatgctgagg caactccaat gctgaaaacc 420  
 ttgagtgatg ccacaacaaa atttgtatca gagaataaaa atttaccatg agaaaatacc 480  
 acagattgtt taagcacaat ggctagtgtg tgcagagtca tgctggaaac accggaatac 540  
 agaagcagat ttacaaatga agagacagtg tcattctgct tgagggtaat ggtgggtgtc 600  
 ataatactct atgaccacgt acatccagtg ggagcatttg ctaaaaacttc caaaattgat 660  
 atgaaagggt gtatcaaagt tcttaaggac caacctccta atagtgtgga aggtcttcta 720  
 aatgctotca ggtacacaac aaaacatttg aatgatgaga ctacctcaa gcaaattaaa 780  
 tccatgctgc aataacaatt ctggaataag cacctgctgt agacagaaga cagtattctg 840  
 caatgactga gaatgcagtt ttttagtgat tgcaattact atctcattta ttcttgcttt 900  
 tatttctttc ctctgttctt cttccctctt ttttaatcat gttcttaaga cttcttttct 960  
 gtgcaaaaat cagtaaagtt acactctgaa gggatatcat cctttcaaac gggccatcta 1020  
 aggcagctaa ttatgcattg cattgggggtc tctactgaga aaaattctgt gacttgaact 1080  
 aaatatattt aaatgtggat tttttttgaa actaatattt aatattgctt ctctgcatg 1140  
 gcaaaaactgc ctattctgct atttaaaaac cctcaatgac tttattttct actgccgcct 1200  
 ttttcatgtg caaccacaaat gaaaatgttt aaattaactg tgttgtacaa atggtaccca 1260  
 acacaaaact tttttaaaatt agtaatactt ttgttttaag ttttaagttt gcattttgac 1320  
 tttttttgta aggatgtatg ttgtgtgttt aacctttatt aactaacgtt aaaagctgtg 1380  
 atgtgtgcgt agaataattac gtatgcatgt tcatgtctaa agaatggctg ttgatgataa 1440  
 aataaaaaatc agctttcatt tttct 1465

<210> 11169  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 11169  
 Met Thr Asn Pro Ala Ile Gln Asn Asp Phe Ser Tyr Tyr Arg Arg Thr  
 1 5 10 15  
 Leu Ser Arg Met Arg Ile Asn Asn Val Pro Ala Glu Gly Glu Asn Glu  
 20 25 30  
 Val Asn Asn Glu Leu Ala Asn Arg Met Ser Leu Phe Tyr Ala Glu Ala

09629469.072300

<210> 11170  
 <211> 1538  
 <212> DNA  
 <213> Homo sapiens

<400> 11170						
aaaaaaatct	gatcccagcc	acaccaggag	ctgaagccat	ggcctcaaag	cctgagaaga	60
gggtggcatc	gtctgtcttt	atcaccctgg	cacccccgcg	ccgcgatgtg	gccgtggcgg	120
aggaagttag	gcaggcagtt	tgttagggcc	ggcgtggccg	cccctgggag	gctcctgccc	180
ccatgaagac	acccgaggct	ggcttggcgg	ggaggcccag	cccctggaca	accctggcca	240
gagctgcagc	cacagtgcgc	gctgcacct	tgcagctctt	caatggagac	atctgtgcct	300
tctgccacaa	gaccgtgttc	ccccgagagc	tggctgtgga	ggccatgaag	aggcagtacc	360
atgcccagtg	cttcacgtgc	cgcacctgcc	gccgccagct	ggctgggcag	agcttctacc	420
agaaggatgg	gcgacccctc	tgcgaacct	gctaccagga	cacactggag	aggtgcggca	480
agtgtggcga	ggtggtccgg	gaccacatca	tcaggggcct	gggccaggcc	ttccaccctt	540
cctgcttcac	gtgtgtgacc	tgcgcccggt	gcattgggga	tgagagcttt	gccctgggca	600
gccagaacga	ggtgtactgc	ctggacgact	totacaggaa	attcgccccc	gtctgcagca	660
tctgtgaaaa	tcccatcatc	cctcgggatg	ggaaagatgc	cttcaaaatc	gaatgcatgg	720
gaagaaaact	ccatgaaaat	tgttacaggt	gtgaggactg	caggatcctc	ctgtctgtcg	780
agcccacgga	ccaaggctgc	tacccctga	acaaccatct	cttctgcaag	ccatgccatg	840
tgaagcggag	tgctgcgggg	tgctgctgag	agtgcccgct	gggcagtga	cagaccacta	900
gccccggcgt	gggccccttc	ctgacttggt	ttcccttcct	aacctgtctt	tgcacacttt	960
ccttctgagc	ctccatggag	accagcctgc	aagccggccc	agcctgtcca	ggatacagtg	1020

```

gggctgagca cccccaggcc ttccactcct ctaccctctg ggcaccagaa ggctcctgga 1080
ccatgagctt cccccccaga attccctgct gaccctgccc cacttccagg gaaaagctgg 1140
gggagggttg acccctctca ctgactagct gtctggtagg ggtgctagga ccagcctcgc 1200
ctgtgggggtt gagctgtttg aggacaaact ccaaggtccc ttaaaaagtg ccttttagag 1260
gctggggcatg gtggctcacg cttgtaatcc cagcactttg ggaggccaag gtgggtggat 1320
cacctgaggt caggagttca agaccagcct ggccaacatg gtgaaaccct gtctctacta 1380
aaaatacaaa aattagccag gcatggtagc aggtgcctgt aatcccagct accggggaaa 1440
gctgaggcag gagaattgct tcaatctgga aggcagaggt tgcagtgaga ttgcaccatt 1500
gcattccagc ctgggcaaca agagggaac tccgtcctt 1538

```

<210> 11171

<211> 276

<212> PRT

<213> Homo sapiens

<400> 11171

```

Met Ala Ser Lys Pro Glu Lys Arg Val Ala Ser Ser Val Phe Ile Thr
  1           5           10           15
Leu Ala Pro Pro Arg Arg Asp Val Ala Val Ala Glu Glu Val Arg Gln
          20          25          30
Ala Val Cys Glu Ala Arg Arg Gly Arg Pro Trp Glu Ala Pro Ala Pro
        35          40          45
Met Lys Thr Pro Glu Ala Gly Leu Ala Gly Arg Pro Ser Pro Trp Thr
        50          55          60
Thr Pro Gly Arg Ala Ala Ala Thr Val Pro Ala Ala Pro Met Gln Leu
        65          70          75          80
Phe Asn Gly Asp Ile Cys Ala Phe Cys His Lys Thr Val Phe Pro Arg
          85          90          95
Glu Leu Ala Val Glu Ala Met Lys Arg Gln Tyr His Ala Gln Cys Phe
        100        105        110
Thr Cys Arg Thr Cys Arg Arg Gln Leu Ala Gly Gln Ser Phe Tyr Gln
        115        120        125
Lys Asp Gly Arg Pro Leu Cys Glu Pro Cys Tyr Gln Asp Thr Leu Glu
        130        135        140
Arg Cys Gly Lys Cys Gly Glu Val Val Arg Asp His Ile Ile Arg Ala
        145        150        155        160
Leu Gly Gln Ala Phe His Pro Ser Cys Phe Thr Cys Val Thr Cys Ala
          165          170          175
Arg Cys Ile Gly Asp Glu Ser Phe Ala Leu Gly Ser Gln Asn Glu Val
        180        185        190
Tyr Cys Leu Asp Asp Phe Tyr Arg Lys Phe Ala Pro Val Cys Ser Ile
        195        200        205
Cys Glu Asn Pro Ile Ile Pro Arg Asp Gly Lys Asp Ala Phe Lys Ile
        210        215        220
Glu Cys Met Gly Arg Asn Phe His Glu Asn Cys Tyr Arg Cys Glu Asp
        225        230        235        240
Cys Arg Ile Leu Leu Ser Val Glu Pro Thr Asp Gln Gly Cys Tyr Pro

```

003220.69462960

-4624/13211-

245 250 255  
Leu Asn Asn His Leu Phe Cys Lys Pro Cys His Val Lys Arg Ser Ala  
260 265 270  
Ala Gly Cys Cys  
275

<210> 11172  
<211> 1518  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (8).. (1432)

<400> 11172  
gtatgctatg gatgcctttg taggacctat ttggagcatg gctgccagcc ccagtggctc 60  
tcaacttttg gttggttggt aagatggatc tgtgaaaacta tttcaaatta cccagacaa 120  
aatccagttt gaaagaaatt ttgatcggca gaaaagtcgc atcctgagtc tcagctggca 180  
tccctctggt acccaccattg cagctggttc catagactac attagtgtgt ttgatgtcaa 240  
atcaggcagc gctgttcata agatgattgt ggacaggcag tatatgggcg tgtctaagcg 300  
gaagtgcac gtgtgggggtg tcgccttctt gtccgatggc actatcataa gtgtggactc 360  
tgctgggaag gtgcagttct gggactcagc cactgggacg cttgtgaaga gccatctcat 420  
cgctaattgct gacgtgcagt ccattgctgt agctgaccaa gaagacagtt tcgtgggtggg 480  
cacagccgag ggaacagtct tccattttca gctggtcctt gtgacatcta acagcagtga 540  
gaagcagtgg gtgcggacaa aaccgttcca gcatcacact catgacgtgc gcaactgtggc 600  
ccacagccca acagcgtga tatctggagg cactgacacc cacttagtct ttcgtcctct 660  
catggagaag gtggaagtaa agaattacga tgccgctctc cgaaaaatca cctttcccca 720  
ccgatgtctc atctcctggt ctaaaaagag gcagcttctc ctcttccagt ttgctcatca 780  
cttagaactt tggcgactgg gatccacagt tgcaacagga acagtggagg ccatgtgtct 840  
tttggcagtc agtccagatg ggaattggct agctgcatca ggtaccagt ctggagtcca 900  
tgtctacaac gtaaaacagc taaagcttca ctgcacgggtg cctgcttaca atttccagct 960  
gactgctatg gctattgccc ccaataccaa caaccttgct atcgctcatt cggaccagca 1020  
ggtatttgag tacagcatcc cagacaaaca gtatacagat tggagccgga ctgtccagaa 1080  
gcagggtctt caccacctt ggctccaaag ggatactcct atcacacaca tcagttttca 1140  
tcccaagaga ccgatgcaca tccttctcca tgatgcctac atgttctgca tcattgacaa 1200  
gtcattgccc cttccaaatg acaaaacctt actctacaat ccatttcctc ccacgaatga 1260  
atcagatgtc atccggaggc gcacagctca tgctttttaa atttotaaga tatataagcc 1320  
tctactcttc atggatcttt tggatgaaag aacactcgtg gcagtagaac ggctcttgga 1380  
tgacatcatt gtcagctcc caccacccat taaaaagaag aaatttggaa cctaaaacag 1440  
ggcactgtct gtgtccttcc ttgaactgtc taccctgttg cttttcacaa atcatggtaa 1500  
taaaacaagt tattcttg 1518

<210> 11173  
<211> 475  
<212> PRT

09629469.072300

<213> Homo sapiens

<400> 11173

Met	Asp	Ala	Phe	Val	Gly	Pro	Ile	Trp	Ser	Met	Ala	Ala	Ser	Pro	Ser
1				5					10					15	
Gly	Ser	Gln	Leu	Leu	Val	Gly	Cys	Glu	Asp	Gly	Ser	Val	Lys	Leu	Phe
			20					25					30		
Gln	Ile	Thr	Pro	Asp	Lys	Ile	Gln	Phe	Glu	Arg	Asn	Phe	Asp	Arg	Gln
		35				40					45				
Lys	Ser	Arg	Ile	Leu	Ser	Leu	Ser	Trp	His	Pro	Ser	Gly	Thr	His	Ile
	50					55					60				
Ala	Ala	Gly	Ser	Ile	Asp	Tyr	Ile	Ser	Val	Phe	Asp	Val	Lys	Ser	Gly
65					70					75					80
Ser	Ala	Val	His	Lys	Met	Ile	Val	Asp	Arg	Gln	Tyr	Met	Gly	Val	Ser
				85				90					95		
Lys	Arg	Lys	Cys	Ile	Val	Trp	Gly	Val	Ala	Phe	Leu	Ser	Asp	Gly	Thr
			100				105						110		
Ile	Ile	Ser	Val	Asp	Ser	Ala	Gly	Lys	Val	Gln	Phe	Trp	Asp	Ser	Ala
		115				120						125			
Thr	Gly	Thr	Leu	Val	Lys	Ser	His	Leu	Ile	Ala	Asn	Ala	Asp	Val	Gln
	130					135					140				
Ser	Ile	Ala	Val	Ala	Asp	Gln	Glu	Asp	Ser	Phe	Val	Val	Gly	Thr	Ala
145					150					155					160
Glu	Gly	Thr	Val	Phe	His	Phe	Gln	Leu	Val	Pro	Val	Thr	Ser	Asn	Ser
				165					170					175	
Ser	Glu	Lys	Gln	Trp	Val	Arg	Thr	Lys	Pro	Phe	Gln	His	His	Thr	His
			180					185					190		
Asp	Val	Arg	Thr	Val	Ala	His	Ser	Pro	Thr	Ala	Leu	Ile	Ser	Gly	Gly
	195						200					205			
Thr	Asp	Thr	His	Leu	Val	Phe	Arg	Pro	Leu	Met	Glu	Lys	Val	Glu	Val
	210					215					220				
Lys	Asn	Tyr	Asp	Ala	Ala	Leu	Arg	Lys	Ile	Thr	Phe	Pro	His	Arg	Cys
225					230					235					240
Leu	Ile	Ser	Cys	Ser	Lys	Lys	Arg	Gln	Leu	Leu	Leu	Phe	Gln	Phe	Ala
				245					250					255	
His	His	Leu	Glu	Leu	Trp	Arg	Leu	Gly	Ser	Thr	Val	Ala	Thr	Gly	Thr
			260					265					270		
Val	Glu	Ala	Met	Cys	Leu	Leu	Ala	Val	Ser	Pro	Asp	Gly	Asn	Trp	Leu
		275					280					285			
Ala	Ala	Ser	Gly	Thr	Ser	Ala	Gly	Val	His	Val	Tyr	Asn	Val	Lys	Gln
	290					295					300				
Leu	Lys	Leu	His	Cys	Thr	Val	Pro	Ala	Tyr	Asn	Phe	Pro	Val	Thr	Ala
305					310					315					320
Met	Ala	Ile	Ala	Pro	Asn	Thr	Asn	Asn	Leu	Val	Ile	Ala	His	Ser	Asp
				325					330					335	
Gln	Gln	Val	Phe	Glu	Tyr	Ser	Ile	Pro	Asp	Lys	Gln	Tyr	Thr	Asp	Trp
			340					345					350		
Ser	Arg	Thr	Val	Gln	Lys	Gln	Gly	Phe	His	His	Leu	Trp	Leu	Gln	Arg

09629469.072800



355	360	365
Asp Thr Pro Ile Thr His Ile Ser Phe His Pro Lys Arg Pro Met His		
370	375	380
Ile Leu Leu His Asp Ala Tyr Met Phe Cys Ile Ile Asp Lys Ser Leu		
385	390	395
Pro Leu Pro Asn Asp Lys Thr Leu Leu Tyr Asn Pro Phe Pro Pro Thr		
405	410	415
Asn Glu Ser Asp Val Ile Arg Arg Arg Thr Ala His Ala Phe Lys Ile		
420	425	430
Ser Lys Ile Tyr Lys Pro Leu Leu Phe Met Asp Leu Leu Asp Glu Arg		
435	440	445
Thr Leu Val Ala Val Glu Arg Pro Leu Asp Asp Ile Ile Ala Gln Leu		
450	455	460
Pro Pro Pro Ile Lys Lys Lys Lys Phe Gly Thr		
465	470	475

<210> 11174  
 <211> 1553  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (66).. (1292)

<400> 11174

gtccatgggg	aagctgccat	tttcttgaaa	aagccagaat	tgcacagaaa	ggaggtgctg	60
aagcaatgtt	agttgtcaat	aacagtgtcc	tatttctctc	ctcaggtgac	agatctgaat	120
ttcctgatgt	gaaaatactg	attgcattta	taagctacaa	agactttaga	gatatgaacc	180
agactotagg	agataacatt	actgtgaaaa	tgtattctcc	atcgtggcct	aactttgatt	240
atactatggg	ggttatTTTT	gtaattgctg	tgttcactgt	ggcattaggt	ggatactgga	300
gtggactagt	tgaattggaa	aacttgaaag	cagtgcacac	tgaagataga	gaaatgagga	360
aaaagaagga	agaatatTTA	acttttagtc	ctcttacagt	tgtaatatTT	gtgggtcatct	420
gctgtgttat	gatgggtctta	ctttatttct	ttacaaaatg	gttggtttat	gttatgatag	480
caattttctg	catagcatca	gcaatgagtc	tgtacaactg	tottgctgca	ctaattcata	540
agataccata	tggacaatgc	acgattgcat	gtcgtggcaa	aaacatggaa	gtgagactta	600
ttttctctct	cggactgtgc	atagcagtag	ctgttggttg	ggctgtgttt	cgaaatgaag	660
acaggtgggc	ttggatttta	caggatatct	tggggattgc	tttctgtctg	aatttaatta	720
aaacactgaa	gttgcccaac	ttcaagtcac	gtgtgatact	tctaggcctt	ctcctcctct	780
atgatgtatt	ttttgttttc	ataacaccat	tcatcacaaa	gaatgggtgag	agtatcatgg	840
ttgaactcgc	agctggacct	tttggaata	atgaaaagtt	gccagtagtc	atcagagtac	900
caaaactgat	ctatttctca	gtaatgagtg	tgtgcctcat	gcctgtttca	atattgggtt	960
ttggagacat	tattgtacca	ggcctgctga	ttgcatactg	tagaagattt	gatgttcaga	1020
ctggttcttc	ttacatatat	tatgtttcgt	ctacagttgc	ctatgctatt	ggcatgatac	1080
ttacatttgt	tgttctgggt	ctgatgaaaa	aggggcaacc	tgtctctctc	tatttagtac	1140
cttgccacact	tattactgcc	tcagttgttg	cctggagacg	taaggaaatg	aaaaagtctt	1200
ggaaaggtaa	cagctatcag	atgatggacc	atttggattg	tgaacaaaat	gaagaaaacc	1260

009220.69462960

ctgagatatac tggatgaacag attgtccagc aataatatta tgtggaactg ctataatgtg 1320  
 tcattgattt tctacaaata gacttcgact ttttaaattg acttttgaat tgacaatctg 1380  
 aaagagtctt caatgatatg cttgcaaaaa tatattttta tgagctggta ctgacagtta 1440  
 catcataaat aactaaaacg ctttgctttt aatgttaaag ttgtgccttc acattaaata 1500  
 aaacatatgg tctgtgtagt ttccgagatg tactatatac agtatatttt tct 1553

<210> 11175

<211> 409

<212> PRT

<213> Homo sapiens

<400> 11175

Met	Leu	Val	Val	Asn	Asn	Ser	Val	Leu	Phe	Pro	Pro	Ser	Gly	Asp	Arg
1				5					10					15	
Ser	Glu	Phe	Pro	Asp	Val	Lys	Ile	Leu	Ile	Ala	Phe	Ile	Ser	Tyr	Lys
			20					25					30		
Asp	Phe	Arg	Asp	Met	Asn	Gln	Thr	Leu	Gly	Asp	Asn	Ile	Thr	Val	Lys
		35					40					45			
Met	Tyr	Ser	Pro	Ser	Trp	Pro	Asn	Phe	Asp	Tyr	Thr	Met	Val	Val	Ile
	50					55					60				
Phe	Val	Ile	Ala	Val	Phe	Thr	Val	Ala	Leu	Gly	Gly	Tyr	Trp	Ser	Gly
65					70					75					80
Leu	Val	Glu	Leu	Glu	Asn	Leu	Lys	Ala	Val	Thr	Thr	Glu	Asp	Arg	Glu
				85					90					95	
Met	Arg	Lys	Lys	Lys	Glu	Glu	Tyr	Leu	Thr	Phe	Ser	Pro	Leu	Thr	Val
			100					105					110		
Val	Ile	Phe	Val	Val	Ile	Cys	Cys	Val	Met	Met	Val	Leu	Leu	Tyr	Phe
		115				120						125			
Phe	Tyr	Lys	Trp	Leu	Val	Tyr	Val	Met	Ile	Ala	Ile	Phe	Cys	Ile	Ala
130						135						140			
Ser	Ala	Met	Ser	Leu	Tyr	Asn	Cys	Leu	Ala	Ala	Leu	Ile	His	Lys	Ile
145					150					155					160
Pro	Tyr	Gly	Gln	Cys	Thr	Ile	Ala	Cys	Arg	Gly	Lys	Asn	Met	Glu	Val
			165						170					175	
Arg	Leu	Ile	Phe	Leu	Ser	Gly	Leu	Cys	Ile	Ala	Val	Ala	Val	Val	Trp
		180						185					190		
Ala	Val	Phe	Arg	Asn	Glu	Asp	Arg	Trp	Ala	Trp	Ile	Leu	Gln	Asp	Ile
		195					200					205			
Leu	Gly	Ile	Ala	Phe	Cys	Leu	Asn	Leu	Ile	Lys	Thr	Leu	Lys	Leu	Pro
210						215					220				
Asn	Phe	Lys	Ser	Cys	Val	Ile	Leu	Leu	Gly	Leu	Leu	Leu	Leu	Tyr	Asp
225					230					235					240
Val	Phe	Phe	Val	Phe	Ile	Thr	Pro	Phe	Ile	Thr	Lys	Asn	Gly	Glu	Ser
			245						250					255	
Ile	Met	Val	Glu	Leu	Ala	Ala	Gly	Pro	Phe	Gly	Asn	Asn	Glu	Lys	Leu
		260					265						270		
Pro	Val	Val	Ile	Arg	Val	Pro	Lys	Leu	Ile	Tyr	Phe	Ser	Val	Met	Ser

09629469.072800

275	280	285
Val Cys Leu Met Pro Val Ser Ile Leu Gly Phe Gly Asp Ile Ile Val		
290	295	300
Pro Gly Leu Leu Ile Ala Tyr Cys Arg Arg Phe Asp Val Gln Thr Gly		
305	310	315
Ser Ser Tyr Ile Tyr Tyr Val Ser Ser Thr Val Ala Tyr Ala Ile Gly		
325	330	335
Met Ile Leu Thr Phe Val Val Leu Val Leu Met Lys Lys Gly Gln Pro		
340	345	350
Ala Leu Leu Tyr Leu Val Pro Cys Thr Leu Ile Thr Ala Ser Val Val		
355	360	365
Ala Trp Arg Arg Lys Glu Met Lys Lys Phe Trp Lys Gly Asn Ser Tyr		
370	375	380
Gln Met Met Asp His Leu Asp Cys Ala Thr Asn Glu Glu Asn Pro Glu		
385	390	395
Ile Ser Gly Glu Gln Ile Val Gln Gln		400
405		

<210> 11176  
 <211> 2271  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (34).. (1122)

<400> 11176

cgcacagacc	tggtcagccc	caagcacgcg	ctcatggtgt	tccgagtggc	caaagtcttt	60
gcccagccca	acctggctga	gatgattcag	aaaggtgagc	agctattcct	ggagccagag	120
ctggtcatcc	cccaccgcca	gcaccgactc	ttcacggccc	ccacattcac	tgggagcttc	180
ctgtcaccct	ggccaccagc	ggtcactgat	gcctccttca	aggtgaagag	ccacgtctac	240
agcctggagg	gccaggaccg	caagtacacc	ccgatgtttg	ggcccagggc	ccgcaccctg	300
gtcctgcgcc	tcgctcagct	catcacacag	gccaaacaca	cagccaagtc	catctccgac	360
cagtgtgcgg	agagcccggc	tggccactcc	ttcctctcat	ggotgggctt	tagctccatg	420
gacaccaatg	gctcctacac	agccaacgac	ctggacgaga	tggggcaaga	cagtgtccgg	480
aagacagatg	aatacctgga	gaaggccctg	gagtacctgc	gccagatatt	ccggctcagc	540
gaagcgcagc	tcaggcagtt	cacactcgcc	ttggggcacca	cccaggatga	gaatggaaaa	600
aagcaactcc	ccgactgcat	cgtgggtgag	gacggactca	tccttacgcc	cctggggcgg	660
taccagatca	tcaatgggct	gcgaaggttt	gaaattgagt	accaggggga	cccggagcag	720
cagcccatcc	ggagctatga	gatcgccagc	ttggtccgca	cactctttag	gtgtctgtct	780
gccatcaacc	acagatttgc	aggacagatg	gcggctctgt	gttcccggga	tgacttcctc	840
ggcagcttct	gtcgtacca	cctcacagaa	cctgggctgg	ccagcaggca	cctgctgagc	900
cctgtggggc	ggaggcaggt	ggccggccac	accgcgggcc	ccaggctcag	cctgcgcttc	960
ctgggcagtt	accggacgct	ggtctcgctg	ctgctggcct	tcttcgtggc	ctctctgttc	1020
tgcgctgggc	ccctcccatg	cacgtgctg	ctcaccctgg	gctatgtcct	ctacgcctct	1080
gccatgacac	tgctgaccga	gcgggggaag	ctgcaccagc	cctgaagggtg	tcagctgcct	1140

09629469.072300

```

tcagagcagg ctggagggat ttgccacaca gccccaccct tgggctgaga ggacctggga 1200
agcccccca ggaggggaaca cggtcacact cgggcttctg gagcgggggtt cctgcagccg 1260
cagaggcatc tggaggaaac gcaaccaaga aaggaaggca ggtgggcccc agcaaaggag 1320
tagctgccag ggctcaacag ctacgctctg tgacagcgca gagctcagcg cgggcctttc 1380
cctccctccg ccaaggactc acggccaagc cagctctcgg ggcccttttt ccagtgccca 1440
tttggctact ctgctgcacc aagcttggga gccagcctgc caacagccac ctgggccttg 1500
cctccccact ggctggcctt gaggttggca gagtgggttg tggcgcttcc tctctctgtg 1560
tgggaccagg acagtggctt aagtctccac tocaggaaaag aatcaaagtt tctagagttg 1620
tgagaaaacc agagagtggc tgtcctgatt cttaactgtg aggggcgttc ttcattgttct 1680
cccagctgtt ccaagactgg gccgtagaat tccatgtttc aggagcctaa gacctccca 1740
gagcccaggg gcttcaccgc agacccaag ccattgagca catcacccaa agcagtggcc 1800
aacatcgcgg acccctgtgc cttgtcacag atgggtgctg gtcctcaggc gttggggaca 1860
ctgctgggtc gatggggctg gattctgcca gtttctgctc tgcagtcaaa gatggtcaga 1920
agcattgtca cttcagtaac atcaagtgtc caaagacatg gcaaccgttc agtgggtactt 1980
aagtattcaa aatatacaac tacagattct ctgacagaaa ccagcacggg gtcttcacct 2040
tcattcacc caccggcgac atgcgaggga gaacagcact tcagtgggtg tttccaaacc 2100
aagcctttgt tttcgggtgt gggttttggg ggtttgcctt aatgtttttg aaattgtaaa 2160
tgttgggctt tttattttga tgtaaacatga gaataatggc attttagggc ctgtgacca 2220
aaatgaagct tgtaacgacc atggatctga ataaacatgt ccttgcttct g 2271

```

<210> 11177  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 11177

Met	Val	Phe	Arg	Val	Ala	Lys	Val	Phe	Ala	Gln	Pro	Asn	Leu	Ala	Glu
1				5					10					15	
Met	Ile	Gln	Lys	Gly	Glu	Gln	Leu	Phe	Leu	Glu	Pro	Glu	Leu	Val	Ile
			20					25					30		
Pro	His	Arg	Gln	His	Arg	Leu	Phe	Thr	Ala	Pro	Thr	Phe	Thr	Gly	Ser
		35				40						45			
Phe	Leu	Ser	Pro	Trp	Pro	Pro	Ala	Val	Thr	Asp	Ala	Ser	Phe	Lys	Val
	50				55					60					
Lys	Ser	His	Val	Tyr	Ser	Leu	Glu	Gly	Gln	Asp	Arg	Lys	Tyr	Thr	Pro
65				70					75					80	
Met	Phe	Gly	Pro	Glu	Ala	Arg	Thr	Leu	Val	Leu	Arg	Leu	Ala	Gln	Leu
			85					90						95	
Ile	Thr	Gln	Ala	Lys	His	Thr	Ala	Lys	Ser	Ile	Ser	Asp	Gln	Cys	Ala
		100					105						110		
Glu	Ser	Pro	Ala	Gly	His	Ser	Phe	Leu	Ser	Trp	Leu	Gly	Phe	Ser	Ser
		115					120					125			
Met	Asp	Thr	Asn	Gly	Ser	Tyr	Thr	Ala	Asn	Asp	Leu	Asp	Glu	Met	Gly
130					135						140				
Gln	Asp	Ser	Val	Arg	Lys	Thr	Asp	Glu	Tyr	Leu	Glu	Lys	Ala	Leu	Glu
145				150					155					160	
Tyr	Leu	Arg	Gln	Ile	Phe	Arg	Leu	Ser	Glu	Ala	Gln	Leu	Arg	Gln	Phe

09629469.072300

				165					170					175					
Thr	Leu	Ala	Leu	Gly	Thr	Thr	Gln	Asp	Glu	Asn	Gly	Lys	Lys	Gln	Leu				
			180					185					190						
Pro	Asp	Cys	Ile	Val	Gly	Glu	Asp	Gly	Leu	Ile	Leu	Thr	Pro	Leu	Gly				
		195					200					205							
Arg	Tyr	Gln	Ile	Ile	Asn	Gly	Leu	Arg	Arg	Phe	Glu	Ile	Glu	Tyr	Gln				
	210					215					220								
Gly	Asp	Pro	Glu	Gln	Gln	Pro	Ile	Arg	Ser	Tyr	Glu	Ile	Ala	Ser	Leu				
225					230					235					240				
Val	Arg	Thr	Leu	Phe	Arg	Leu	Ser	Ser	Ala	Ile	Asn	His	Arg	Phe	Ala				
				245					250					255					
Gly	Gln	Met	Ala	Ala	Leu	Cys	Ser	Arg	Asp	Asp	Phe	Leu	Gly	Ser	Phe				
		260						265					270						
Cys	Arg	Tyr	His	Leu	Thr	Glu	Pro	Gly	Leu	Ala	Ser	Arg	His	Leu	Leu				
	275						280					285							
Ser	Pro	Val	Gly	Arg	Arg	Gln	Val	Ala	Gly	His	Thr	Arg	Gly	Pro	Arg				
	290					295					300								
Leu	Ser	Leu	Arg	Phe	Leu	Gly	Ser	Tyr	Arg	Thr	Leu	Val	Ser	Leu	Leu				
305					310					315					320				
Leu	Ala	Phe	Phe	Val	Ala	Ser	Leu	Phe	Cys	Val	Gly	Pro	Leu	Pro	Cys				
				325				330						335					
Thr	Leu	Leu	Leu	Thr	Leu	Gly	Tyr	Val	Leu	Tyr	Ala	Ser	Ala	Met	Thr				
			340					345					350						
Leu	Leu	Thr	Glu	Arg	Gly	Lys	Leu	His	Gln	Pro									
		355					360												

<210> 11178  
 <211> 1844  
 <212> DNA  
 <213> Homo sapiens

<400> 11178  
 tccttatgtg gcagctttgg ccatttgtgc ttgaaattct ccctcaggaa atgtgatagg 60  
 ggatattatc ccatgggatt ttagtaaaaa tcagcttgcc taatttcata ttctgtgttca 120  
 taatgaagaa atgcgaagtg gtggtagtcc tcaggattaa gtgtaaagga aaatatgcaa 180  
 ggaaaaagta gcagtgtcag cccttttggga ctgcttatga tttctgcctt agagctacaa 240  
 gacttggaac aagaaataac aatacctcaa gaaaatgtct ggagagatag caccactgtc 300  
 cctcaaagac ttcagccact gcacattacc aattcagctg tgaagcattt acaactgtat 360  
 tatctgtgat tgtctgcatt tcctgtttac atgcatgtgc tggggatatg ctttagtgtg 420  
 tatggactag agtttaaato ctgtctttta ctgggctgca aggatggcta tcaatcccaa 480  
 attctgtttt caactcactg gaataattaa tctggtgttc ctgatataaa acaggtgggt 540  
 totattcaca tgatggctgc tctttaccat atatttcacc tgacctcat tttgccatgg 600  
 gcctcaacct ttatgtgtgc tttttatggc tctgaaagga ctggctcccg tgtgtggaat 660  
 atacaaggta taaacaccac ccctcacata ccctgtaac ttaaatgctt ccatttaact 720  
 cacttagatt actttccct tagtggtaaa cgggttgggg gatgggtggt agtgcaaaga 780  
 aggtagtittg aaatattgcc atagtaatat gggaactttt tattccaacc ctttaccctg 840  
 gctttttttt ctctcaatat ttgcctaaaa ttctaaaatg agttatagta aaatcataaa 900

09629469 . 072800

actatgga	caactga	actttggt	acacatg	agttagtt	cgatgac	atcattg	gttatttg	960				
aacagta	aaaa	ggtgtgt	cat	tgccatga	tttatcat	agtcatt	actaa	gggtttc	1020			
gagaatc	tgg	tgtgaag	cac	tatccitt	ca	gacacta	agg	ccittac	ctta	gttgctc	1080	
taccttct	gt	cggaatag	ga	ttattccc	at	gcacctct	gg	gtaggtat	ag	gtagtag	ctta	1140
ttgaacg	ggg	attatttt	cc	ccatggca	ca	aggggaaa	ca	ctcttgga	ta	accttca	aca	1200
atgaggc	ttt	gctaagt	ggc	cagactt	ggg	atttgat	ctt	ctcactt	gt	tatttatt	aa	1260
gtttaag	cct	tattcagt	at	ctctaatt	gc	aatagata	ta	gttcctgt	ga	cttctaaa	aaaa	1320
aaattc	cctgt	taatgct	gag	acagtat	ctt	ttttgtc	agt	ttattaat	ttt	ttggtca	aga	1380
tttagc	cctga	gtcttaa	agc	atttattt	gt	ggaatg	cccc	actgaag	tgt	cttctcc	att	1440
ggctaag	tac	atgttt	aaag	ccatggg	ttt	taatgta	aga	tactttc	agt	atctaatt	ct	1500
gtttcccc	ca	ctgaggg	tgc	taaagaga	aat	tagaatc	ttt	actaaga	cat	gtcaggaa	aaa	1560
gcttcac	gag	agaacag	ctt	caaaatc	ctc	ccatgac	ac	tgaatgg	tag	tgaggaa	aga	1620
attcttg	ggg	atgccag	tta	catacaat	ag	ccattatt	act	gctaata	cact	gtcaata	aaaa	1680
ggtcact	tca	ttcacct	cta	tttgagg	aaa	acaatga	gaa	tgtatct	gat	gaactaga	aat	1740
ccttgtc	agt	attggg	aaat	tttaatg	tgt	caatatc	tag	tcaaa	ctttg	agtgtact	gg	1800
ttctgtg	aac	cacctga	aaaa	aacaaatt	aa	atgtatt	aaa	ccat				1844

<210> 11179

<211> 1621

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (148).. (1164)

<400> 11179

cggcagc	gga	actatg	ctgg	ccgctgg	gat	gtcctgat	cc	agcaggcc	ac	ccagtgc	ctc	60
aaccgc	cctca	tccagatt	gc	tgcccg	caag	aaacgca	act	atatac	ctaga	tcagaca	aat	120
gtttat	gggt	cagccc	agag	acgaaaa	atg	agaccatt	tgt	aaggctt	cca	gcgcaa	agct	180
attgta	attt	gtccca	ctga	cgaggac	cta	aaagacc	gaa	caataaa	agcg	aaccgac	gag	240
gaaggga	aagg	atgtccc	aga	tcatgcg	gtc	ttagaaa	atga	aagcca	actt	cacgttg	cca	300
gatgtt	gggg	acttcct	gga	tgaggtt	ctg	ttcattg	agc	tgacgcg	gga	ggaagcg	gac	360
aagctag	tga	ggcagta	caa	cgagga	aaggc	cgcaagg	ctg	ggccac	cccc	tgaaaag	cgc	420
tttgaca	aacc	gaggtg	gtgg	tggcttc	cg	ggccg	ogggg	gtggtg	gttg	cttcag	cgc	480
tatgaaa	aacc	gaggac	cccc	tggagg	caac	cgtggc	ggct	tccaga	aaccg	aggggg	aggc	540
agcgg	tggag	gaggca	acta	ccgagg	aggt	ttcaacc	gca	gcggag	gtg	tggctat	agc	600
cagaacc	gct	ggggt	aacaa	caaccg	ggat	aacaaca	act	ccaaca	acag	aggcag	ctac	660
aaccggg	ctc	cccag	caaca	gccgcc	acca	cagcag	cctc	cgccac	caca	gccacc	acc	720
cagcag	ccac	cgccac	cacc	cagctac	agc	cctgct	cgg	aoccc	ccagg	ggccag	cacc	780
tacaata	aga	acagca	acat	ccctgg	ctca	agcgcca	ata	ccagc	acccc	caccgt	cagc	840
agctac	agcc	ctccac	agcc	gagttac	agc	cagccac	ccct	acaacc	aggg	aggttac	agc	900
caggg	ctaca	cagcccc	acc	gcctcc	acct	ccaccac	cac	ctgcct	acaa	ctatggg	gagc	960
tacgg	cgggt	acaacc	cggc	cccctat	acc	ccaccg	ccac	ccccac	cgc	acagac	ctac	1020
cctcag	ccca	gtata	acca	gtatcag	cag	tatgcc	cagc	agtgg	aacca	gtactat	cag	1080
aaccagg	ggcc	agtgg	ccgc	atactac	ggg	aactac	gact	acggg	agcta	ctccggg	gaac	1140
acacagg	ggtg	gcaca	agtac	acagtag	cca	gtgtg	accca	gaggct	cccg	gaggccc	cctg	1200

```

ccggcttcct ccaccagcgc ctgcctcggc ccctcctctg ccccgccag atcccggtgt 1260
gctggggatg gggtcacccc agggctgcct ccctccagcc cactgcctcc cctctgaggg 1320
gcttccttcc cctccatagg gccaggcatt tttttctgga ttcaaacagg caacaatgac 1380
cttttatttt ctgtttgtcc ccacctcccc agccttccac ctctgtttct tcctaccttc 1440
ttcctttttg actaaataat ccccacctcc cttgatcata cagtgaggct acagtgactg 1500
agggggagaat cccctcctgt tcactctccc aacctgtctc cagccctca gcttcccaga 1560
ccctcatgca gttggttgta aattctccca ggagctgttt tactgtctac ttttcaggat 1620
t
t
1621

```

<210> 11180

<211> 339

<212> PRT

<213> Homo sapiens

<400> 11180

```

Met Arg Pro Phe Glu Gly Phe Gln Arg Lys Ala Ile Val Ile Cys Pro
 1          5          10          15
Thr Asp Glu Asp Leu Lys Asp Arg Thr Ile Lys Arg Thr Asp Glu Glu
          20          25          30
Gly Lys Asp Val Pro Asp His Ala Val Leu Glu Met Lys Ala Asn Phe
          35          40          45
Thr Leu Pro Asp Val Gly Asp Phe Leu Asp Glu Val Leu Phe Ile Glu
          50          55          60
Leu Gln Arg Glu Glu Ala Asp Lys Leu Val Arg Gln Tyr Asn Glu Glu
          65          70          75          80
Gly Arg Lys Ala Gly Pro Pro Pro Glu Lys Arg Phe Asp Asn Arg Gly
          85          90          95
Gly Gly Gly Phe Arg Gly Arg Gly Gly Gly Gly Gly Phe Gln Arg Tyr
          100          105          110
Glu Asn Arg Gly Pro Pro Gly Gly Asn Arg Gly Gly Phe Gln Asn Arg
          115          120          125
Gly Gly Gly Ser Gly Gly Gly Gly Asn Tyr Arg Gly Gly Phe Asn Arg
          130          135          140
Ser Gly Gly Gly Gly Tyr Ser Gln Asn Arg Trp Gly Asn Asn Asn Arg
          145          150          155          160
Asp Asn Asn Asn Ser Asn Asn Arg Gly Ser Tyr Asn Arg Ala Pro Gln
          165          170          175
Gln Gln Pro Pro Pro Gln Gln Pro Pro Pro Pro Gln Pro Pro Pro Gln
          180          185          190
Gln Pro Pro Pro Pro Pro Ser Tyr Ser Pro Ala Arg Asn Pro Pro Gly
          195          200          205
Ala Ser Thr Tyr Asn Lys Asn Ser Asn Ile Pro Gly Ser Ser Ala Asn
          210          215          220
Thr Ser Thr Pro Thr Val Ser Ser Tyr Ser Pro Gln Pro Ser Tyr
          225          230          235          240
Ser Gln Pro Pro Tyr Asn Gln Gly Gly Tyr Ser Gln Gly Tyr Thr Ala
          245          250          255

```

09629469-072300

Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Ala Tyr Asn Tyr Gly Ser Tyr  
 260 265 270  
 Gly Gly Tyr Asn Pro Ala Pro Tyr Thr Pro Pro Pro Pro Pro Thr Ala  
 275 280 285  
 Gln Thr Tyr Pro Gln Pro Ser Tyr Asn Gln Tyr Gln Gln Tyr Ala Gln  
 290 295 300  
 Gln Trp Asn Gln Tyr Tyr Gln Asn Gln Gly Gln Trp Pro Pro Tyr Tyr  
 305 310 315 320  
 Gly Asn Tyr Asp Tyr Gly Ser Tyr Ser Gly Asn Thr Gln Gly Gly Thr  
 325 330 335  
 Ser Thr Gln

<210> 11181  
 <211> 1587  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (109).. (1353)

<400> 11181  
 ttgggcctcg tgttgctgct cactggattg ttggctctcg gggctagtga gtcggccctg 60  
 gttaccaaag tgttcacagg cgtgaacctt ttggttcttg ggttcgtcat gatctctggc 120  
 ttcgttaagg gggacgtgca caactggaag ctacacagaag aggactacga attggccatg 180  
 gctgaactca atgacaccta tagcttgggt cctctgggct ctggaggatt tgtgcctttc 240  
 ggcttcgagg gaattctccg tggagcagcg acctgtttct atgcatttgt tggtttcgac 300  
 tgtattgcta ccactggaga agaagcccag aatccccagc gttccatccc gatgggcatt 360  
 gtgatctcac tgtctgtctg ctttttggcg tattttgctg tctcttctgc actcaccctg 420  
 atgatgcctt actaccagct tcagcctgag agccctttgc ctgaggcatt tctctacatt 480  
 ggatgggctc ctgcccgcta tgttgtggct gttggctccc tctgtgctct ttctaccagc 540  
 ctcttgggct ccatgttccc catgcctcgg gtgatctacg cgatggcaga ggatggcctc 600  
 ctgttccgtg tacttgctcg gatccacacc ggcacacgca cccaatcat agccaccgtg 660  
 gtctctggca ttattgcagc attcatggca ttctcttcca aactcaactga tcttgtggac 720  
 ctcatgtcaa ttgggacctt gcttgcttac tccctgggtg cgatttgtgt tctcatcctc 780  
 aggtatcaac ctgatcagga gacaaagact ggggaagaag tggagttgca ggaggaggca 840  
 ataactactg aatcagagaa gttgacctta tggggactat ttttcccaact caactccatc 900  
 cccactccac tctctggcca aattgtctat gtttgttccct cattgcttgc tgttctgctg 960  
 actgctcttt gcctgggtgct ggcccagtggt tcagttccat tgctttctgg agacctgctg 1020  
 tggactgcag tggttgtgct gctcctgctg ctcatatttg ggatcattgt ggtcatcttg 1080  
 agacagccac agagttccac tccccttcac tttaagggtg ctgctttgcc tctcctccca 1140  
 ctaatgagca tctttgtgaa tatttacctt atgatgcaga tgacagctgg tacctgggcc 1200  
 cgatttgggg tctggatgct gattggcttt gctatctact tcggctatgg gatccagcac 1260  
 agcctggagg agattaagag taaccaacco tcacgcaagt ctagagccaa aactgtagac 1320  
 cttgatcccg gcactctcta tgtccactca gtttgacatc gtcacaccta aatgctgtct 1380  
 ggtccctcgc acaataatgg agagtactcc tgaccccagt gacagctagc cctccctctg 1440



-4634/13211-

gatggtggtg gtggatacta atacagttct gtaogatgtg aaggatgtgt ctttgcatt 1500  
tcttgtctat ttttaaccgt ctgcttctaa atgatgtota gctgcttacc aactttaaaa 1560  
aatgatatta aaagaaagta gaaaaat 1587

<210> 11182  
<211> 415  
<212> PRT  
<213> Homo sapiens

<400> 11182

Met	Ile	Ser	Gly	Phe	Val	Lys	Gly	Asp	Val	His	Asn	Trp	Lys	Leu	Thr
1				5				10						15	
Glu	Glu	Asp	Tyr	Glu	Leu	Ala	Met	Ala	Glu	Leu	Asn	Asp	Thr	Tyr	Ser
		20					25					30			
Leu	Gly	Pro	Leu	Gly	Ser	Gly	Gly	Phe	Val	Pro	Phe	Gly	Phe	Glu	Gly
		35				40					45				
Ile	Leu	Arg	Gly	Ala	Ala	Thr	Cys	Phe	Tyr	Ala	Phe	Val	Gly	Phe	Asp
	50					55					60				
Cys	Ile	Ala	Thr	Thr	Gly	Glu	Glu	Ala	Gln	Asn	Pro	Gln	Arg	Ser	Ile
65					70					75					80
Pro	Met	Gly	Ile	Val	Ile	Ser	Leu	Ser	Val	Cys	Phe	Leu	Ala	Tyr	Phe
				85					90					95	
Ala	Val	Ser	Ser	Ala	Leu	Thr	Leu	Met	Met	Pro	Tyr	Tyr	Gln	Leu	Gln
		100						105					110		
Pro	Glu	Ser	Pro	Leu	Pro	Glu	Ala	Phe	Leu	Tyr	Ile	Gly	Trp	Ala	Pro
		115					120					125			
Ala	Arg	Tyr	Val	Val	Ala	Val	Gly	Ser	Leu	Cys	Ala	Leu	Ser	Thr	Ser
	130					135					140				
Leu	Leu	Gly	Ser	Met	Phe	Pro	Met	Pro	Arg	Val	Ile	Tyr	Ala	Met	Ala
145					150					155					160
Glu	Asp	Gly	Leu	Leu	Phe	Arg	Val	Leu	Ala	Arg	Ile	His	Thr	Gly	Thr
			165						170					175	
Arg	Thr	Pro	Ile	Ile	Ala	Thr	Val	Val	Ser	Gly	Ile	Ile	Ala	Ala	Phe
		180						185					190		
Met	Ala	Phe	Leu	Phe	Lys	Leu	Thr	Asp	Leu	Val	Asp	Leu	Met	Ser	Ile
		195					200					205			
Gly	Thr	Leu	Leu	Ala	Tyr	Ser	Leu	Val	Ser	Ile	Cys	Val	Leu	Ile	Leu
	210					215					220				
Arg	Tyr	Gln	Pro	Asp	Gln	Glu	Thr	Lys	Thr	Gly	Glu	Glu	Val	Glu	Leu
225					230					235					240
Gln	Glu	Glu	Ala	Ile	Thr	Thr	Glu	Ser	Glu	Lys	Leu	Thr	Leu	Trp	Gly
			245						250					255	
Leu	Phe	Phe	Pro	Leu	Asn	Ser	Ile	Pro	Thr	Pro	Leu	Ser	Gly	Gln	Ile
		260						265					270		
Val	Tyr	Val	Cys	Ser	Ser	Leu	Leu	Ala	Val	Leu	Leu	Thr	Ala	Leu	Cys
	275						280						285		
Leu	Val	Leu	Ala	Gln	Trp	Ser	Val	Pro	Leu	Leu	Ser	Gly	Asp	Leu	Leu

09629469.072800

290 295 300  
Trp Thr Ala Val Val Val Leu Leu Leu Leu Leu Ile Ile Gly Ile Ile  
305 310 315 320  
Val Val Ile Trp Arg Gln Pro Gln Ser Ser Thr Pro Leu His Phe Lys  
325 330 335  
Val Pro Ala Leu Pro Leu Leu Pro Leu Met Ser Ile Phe Val Asn Ile  
340 345 350  
Tyr Leu Met Met Gln Met Thr Ala Gly Thr Trp Ala Arg Phe Gly Val  
355 360 365  
Trp Met Leu Ile Gly Phe Ala Ile Tyr Phe Gly Tyr Gly Ile Gln His  
370 375 380  
Ser Leu Glu Glu Ile Lys Ser Asn Gln Pro Ser Arg Lys Ser Arg Ala  
385 390 395 400  
Lys Thr Val Asp Leu Asp Pro Gly Thr Leu Tyr Val His Ser Val  
405 410 415

<210> 11183  
<211> 1746  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (174).. (677)

<400> 11183  
agtctgagcc cctgagcctt atcgcaaatt tggtagctgg ctcatcctgc cggggccctc 60  
cactgccag agacctgcag ggctccagga acagggctga agtcgcctct gccctgcgct 120  
ccttctcccc gctgcaaccc gggcaggcgc ccacaggcgc ggctcacaga accatgacag 180  
gctctgggggt ggatgccagg acagccagct ccgggagcag cgtgtgggaa ggacagctgc 240  
agagcctgggt gctgtcagaa tatgcatcca cagagatgag cctgcatgcc ctctatatgc 300  
accagctcca caagcagcag gccaggctg aacctgagcg gcatgtatgg caccgccggg 360  
agagtgatga gaggggagaa agcgccctg atgaaggggg agagggcgcc cggggccccc 420  
agtctatccc tcgctctgct agctatccct gtgcagcacc ccggcctgga gctcctgaga 480  
ccaccgccct gcatgggggc ttccagagga gctacggtgg catcacagat cctggcacag 540  
tgcccagggt tccctctcat ttctctcggc tgccctcttg aggggtggca gaagatgggc 600  
agtcggcatc aaggcaccct gagcccgctg ccgaagaggg ctggaggat gagctacccc 660  
ctcagggtgca caaggtatag acaaggctga gcagggttcc tgtggcccag gatggaggcc 720  
accgctgccc tgccatcccg tctgcctgcc atgggacggc tcctctgagt gttccctggc 780  
cccacgtgtg tgggtgtttgt gtgtctgtgc ctggccaagg gaggtgccaa cactgggctt 840  
gccacagccc caggagagga atttggggcc taggaaccga gggcacacgg gactctagcc 900  
tcatccccag gaccccttg gctcagagtg tgggtgctaga aactggtccc cagcccagcc 960  
ccagtactgc caccctttaca cctacccttg caagtcccca gagggctgcc cacgatagaa 1020  
gctgccaagc agggagaacc tgtgccaact gtggagtggg gaggttgggc ctggaccctc 1080  
aaccctgca accttcccta gccccctcaa tagatgagca ggtcaggctg tggcccttac 1140  
ctcaccgcga gttctcgccc agtgcctgcag ccggctcacc tctctccgct tcttgacat 1200  
cactggcctg tgtgtactgc ttgctcctgt tctgttcgct tgcctccgtt ccgttcggct 1260

09629469.072800

-4636/13211-

tttgctttgc gttaggggtga agaccctagc gtccagctcc cctcaacgct atatattgac 1320  
actaaaaaag aaggttttcta aattgtagga gcaggatgga aatactttgc tgcccttgcc 1380  
atcttttagg atggggccccc aggagactga ggtcttcctg ggccctcatt gctgcttata 1440  
gtacccccca tcacctgcac atgggacaga ccgggctgga gggtagacctt ggctgtgtac 1500  
gtcccagcaa aagagctctg gcccgcatct cgctgtgccc tgaaggggga tgaagggcga 1560  
tgccctgccc gaggcttttg gctgctgcac tgcattgctg gactgctcct actctctgtc 1620  
ccaccctca cccagctgtg gtccggcctt gggagagtgg tgaattgcgc tgcccgaact 1680  
cggagcggag cagggtaggg accgtgtaca gcttgataac ccttaataaa aaggagattt 1740  
gaccag 1746

<210> 11184  
<211> 168  
<212> PRT  
<213> Homo sapiens

<400> 11184  
Met Thr Gly Ser Gly Val Asp Ala Arg Thr Ala Ser Ser Gly Ser Ser  
1 5 10 15  
Val Trp Glu Gly Gln Leu Gln Ser Leu Val Leu Ser Glu Tyr Ala Ser  
20 25 30  
Thr Glu Met Ser Leu His Ala Leu Tyr Met His Gln Leu His Lys Gln  
35 40 45  
Gln Ala Gln Ala Glu Pro Glu Arg His Val Trp His Arg Arg Glu Ser  
50 55 60  
Asp Glu Ser Gly Glu Ser Ala Pro Asp Glu Gly Gly Glu Gly Ala Arg  
65 70 75 80  
Ala Pro Gln Ser Ile Pro Arg Ser Ala Ser Tyr Pro Cys Ala Ala Pro  
85 90 95  
Arg Pro Gly Ala Pro Glu Thr Thr Ala Leu His Gly Gly Phe Gln Arg  
100 105 110  
Arg Tyr Gly Gly Ile Thr Asp Pro Gly Thr Val Pro Arg Val Pro Ser  
115 120 125  
His Phe Ser Arg Leu Pro Leu Gly Gly Trp Ala Glu Asp Gly Gln Ser  
130 135 140  
Ala Ser Arg His Pro Glu Pro Val Pro Glu Glu Gly Ser Glu Asp Glu  
145 150 155 160  
Leu Pro Pro Gln Val His Lys Val  
165

<210> 11185  
<211> 1927  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS

09629469.072800

<222> (511).. (1416)

<400> 11185

gtatgaacgc agcggcggac ctgtgagggg atccgacttg ccggcagaaac ttacgctgcg 60  
ggaccccgagg cactgttgct gctgcgggag tccagagagg caggaggatg gagctcgga 120  
ggatttcagc tccaggctgg ctgctggacc gacttttcaa cattttttaa aaagtgcctc 180  
agctcctcag gagaagctgt cttcagaagt ggaagacca cctccctatc tcatgatgga 240  
tgaacttctt ggaaggcaga gaaaagtcta cctcgagacc tatggctgcc agatgaatgt 300  
gaatgacaca gagatagcct ggtccatctt acagaagagg gctacctgcg gaccagtaac 360  
ctccaaggagg cagatgtgat tctccttgct acgtgctcta tcagggagaa ggctgagcag 420  
accatctgga accgtttaca tcagcttaaa gccttgaaga caaggcggcc ccgctcccg 480  
gttctctga ggattggaat tctaggctgc atggctgaga ggttgaagga ggagattctc 540  
aacagagaga aaatggtaga tattttggct ggctctgatg cctaccggga ccttcccg 600  
ctgctggctg ttgctgagtc gggccagcaa gctgccaacg tgctgctctc tctggacgag 660  
acctatgctg atgtcatgcc agtccagaca agcgcagtg ccacgtctgc ctttgtgtca 720  
atcatgcgag gctgtgacaa catgtgtagc tactgcattg ttcctctcac ccggggcagg 780  
gagaggagtc ggcctattgc ctccactcta gaggaagtga agaagcttgc tgagcagggg 840  
ctgaaagaag tgacacttct tggtcagaat gttaatatgt ttcggggcaa ttcggaggtc 900  
cagttcaaca gtgcagtgc taccatctc agtcgtggct ttaccacca ctataaaacc 960  
aagcaaggag gacttcgttt tgctcatctt ctggatcagg tctccagagt agatcctgaa 1020  
atgaggatcc gttttacctc tccccacccc aaggattttc ctgatgaggt tctgcagctg 1080  
attcatgaga gagataacat ctgtaaacag atccacctgc cagcccagag tggaagcagc 1140  
cgtgtgttg aggccatgcg gaggggatat tcaagagaag cttatgtgga gttagttcac 1200  
catattagag aatctattcc aggtgtgagc ctccagcagc atttcattgc tggcttttgt 1260  
ggtgagacgg aggaagatca cgtccagaca gtctctttgc tccgggaagt tcagtacaac 1320  
atgggcttcc tctttgccta cagcatgaga cagaagacac gggcatatca taggctgaag 1380  
gatgatgtcc cggaagaggt aaaattaagg cgtttgtagg aactcatcac tatcttccga 1440  
gaagaagcaa caaaagccaa tcagacctct gtgggctgta cccagtttgt gctagtggaa 1500  
gggctcagta aacgctctgc cactgacctg tgtggcagga atgatggaaa ccttaaggtg 1560  
atcttccctg atgcagagat ggaggatgtc aataaccctg ggctcagggt cagagcccag 1620  
cctggggact atgtgctggt gaagatcacc tcagccagtt ctccagacact taggggacat 1680  
gttctctgca ggaccactct gagggactct tctgcatatt gctgacctga gaggatggcc 1740  
tcagagctga cttgggcaat cctccccaac aggaagggga gacattgcct gccactgagg 1800  
aaacaggtca tgaaggtgga gataagctgc aaggggcgaa gcaactttat gtcagtggaa 1860  
aacgtgtctc tttaaagctg ctatgtgaac agcttttaca gtcattaaat ttacctaaac 1920  
taaggtt 1927

<210> 11186

<211> 302

<212> PRT

<213> Homo sapiens

<400> 11186

Met Ala Glu Arg Leu Lys Glu Glu Ile Leu Asn Arg Glu Lys Met Val  
1 5 10 15  
Asp Ile Leu Ala Gly Pro Asp Ala Tyr Arg Asp Leu Pro Arg Leu Leu  
20 25 30

09629469.072300

-4638/13211-

Ala Val Ala Glu Ser Gly Gln Gln Ala Ala Asn Val Leu Leu Ser Leu  
35 40 45  
Asp Glu Thr Tyr Ala Asp Val Met Pro Val Gln Thr Ser Ala Ser Ala  
50 55 60  
Thr Ser Ala Phe Val Ser Ile Met Arg Gly Cys Asp Asn Met Cys Ser  
65 70 75 80  
Tyr Cys Ile Val Pro Leu Thr Arg Gly Arg Glu Arg Ser Arg Pro Ile  
85 90 95  
Ala Ser Thr Leu Glu Glu Val Lys Lys Leu Ser Glu Gln Gly Leu Lys  
100 105 110  
Glu Val Thr Leu Leu Gly Gln Asn Val Asn Ser Phe Arg Gly Asn Ser  
115 120 125  
Glu Val Gln Phe Asn Ser Ala Val Pro Thr Asn Leu Ser Arg Gly Phe  
130 135 140  
Thr Thr Asn Tyr Lys Thr Lys Gln Gly Gly Leu Arg Phe Ala His Leu  
145 150 155 160  
Leu Asp Gln Val Ser Arg Val Asp Pro Glu Met Arg Ile Arg Phe Thr  
165 170 175  
Ser Pro His Pro Lys Asp Phe Pro Asp Glu Val Leu Gln Leu Ile His  
180 185 190  
Glu Arg Asp Asn Ile Cys Lys Gln Ile His Leu Pro Ala Gln Ser Gly  
195 200 205  
Ser Ser Arg Val Leu Glu Ala Met Arg Arg Gly Tyr Ser Arg Glu Ala  
210 215 220  
Tyr Val Glu Leu Val His His Ile Arg Glu Ser Ile Pro Gly Val Ser  
225 230 235 240  
Leu Ser Ser Asp Phe Ile Ala Gly Phe Cys Gly Glu Thr Glu Glu Asp  
245 250 255  
His Val Gln Thr Val Ser Leu Leu Arg Glu Val Gln Tyr Asn Met Gly  
260 265 270  
Phe Leu Phe Ala Tyr Ser Met Arg Gln Lys Thr Arg Ala Tyr His Arg  
275 280 285  
Leu Lys Asp Asp Val Pro Glu Glu Val Lys Leu Arg Arg Leu  
290 295 300

<210> 11187

<211> 2631

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (24)..(1925)

<400> 11187

taagagattt ttctacagaa tcaatgtcctt tgggtccagc aacaaattat atatatacac 60  
ccctgaatca acttaagggt ggtacaattg tcaatgtcta tgggtgtgtg aagttcttta 120

09629469.072300

```

agcccccata tctaagcaaa ggaactgatt attgctcagt tgtaactatt gtggaccaga 180
caaatgtaaa actaacttgc ctgctcttta gtggaaaacta tgaagccctt ccaataattt 240
ataaaaaatgg agatatattgtt cgctttcaca ggctgaagat tcaagtatat aaaaaggaga 300
ctcagggtat caccagctct ggctttgcat ctttgacgtt tgagggaact ttgggagccc 360
ctatcatacc tcgcacttca agcaagtatt ttaacttcac tactgaggac cacaaaatgg 420
tagaagccctt acgtgttttg gcatctactc atatgtcacc gtcttggaca ttactaaaat 480
tgttgtatgt tcagccaatg cagtattttg acctgacttg tcagctcttg ggcaaagcag 540
aagtggacgg agcatcattt cttctaaagg tatgggatgg caccaggaca ccatttccat 600
cttgagagat cttaatacaa gacctgttgc ttgaaggatga tttaagtcac atccatcggc 660
tacaaaatct gacaatagac attttagtct acgataacca tgttcatgtg gcaagatctc 720
tgaaggtttg aagctttctt agaactctata gccttccata caaacttcaa tcaatgaatt 780
cagagaatca gacaatgtta agtttagagt ttcatcttca tggaggtacc agttacggtc 840
ggggaatcag ggtcttgcca gaaagtaact ctgatgtgga tcaactgaaa aaggatttag 900
aatctgcaaa tttgacagcc aatcagcatt cagatgttat ctgtcaatca gaacctgacg 960
acagctttcc aagctctgga tcagtatcat tatacagggt agaaagatgt caacagctat 1020
ctgctacaat acttacagat catcagtatt tggagaggac accactatgt gccattttga 1080
aacaaaaagc tcctcaacaa taccgcatcc gagcaaaatt gaggtcatat aagcccagaa 1140
gactatttca gtctgttaaa cttcatttgc ctaaatgtca tttgctgcaa gaagttccac 1200
atgaggggcga tttggatata atttttcagg atgggtgcaac taaaacccca gttgtcaagt 1260
tacaaaatac atcattatat gattcaaaaa tctggaccac taaaaatcaa aaaggacgaa 1320
aagtagcagt tcattttgtg aaaaataatg gtattctccc gotttcaaat gaatgtctac 1380
ttttgataga aggaggtaca ctcagtgaat tttgcaaaact ctogaacaag tttaatagt 1440
taattcctgt gagatctggc cacgaagacc tggaactttt ggacctttca gcaccatttc 1500
ttatacaagg aacaatacat cactatggat gtaaacagtg ttctagtttg agatccatac 1560
aaaatctaaa ttccctgggt gataaaacat cgtggattcc ttcttctgtg gcagaagcac 1620
tggttattgt acccctccaa tatgtgtttg ttatgacctt tacacttgat gatggaacag 1680
gagtactaga agcctatctc atggattctg acaaatctct ccagattcca gcatcagaag 1740
ttctgatgga tgatgacctt cagaaaagtg tggatatgat catggatatg ttttgtcctc 1800
caggaataaa aattgatgca tatccgtggg tggaatgctt catcaagtca tacaatgtca 1860
caaatggaac agataatcaa atttgctatc agatttttga caccacagtt gcagaagatg 1920
taatctaata ttgccatcca atttagcata cataaaatgt tgccactcac cttccctgtt 1980
tgagcttctt ttccctgacct gagttttgtt tcagcaatgt tgatgatgtt agcatggata 2040
tggtgattaga aaatgtcctt accttaaatc tcttggcttt tactgggtgc aaggtaaata 2100
atggctatgg attttgtttt gctttctgtt ttgcttttgt acaaagagac ctgcttaaac 2160
aagtaactgt gagataagtg tctgatcaag ctacagtgtt ctttaagtag aaatggcaaa 2220
gttgctttgt tgggtgtctg atactgatga ttttaggata aattcatttc tttaaacttg 2280
taatacatgg ttttattgct tgtttctctc caggatagta gagatttctc tatttcacct 2340
caaccttaata aaagtgggtca gatttataat gttaatgact taatattatc cttttctaata 2400
agtctcatgt aaaaatagcc gctattacaa cttacaacta attgaatgag atgttaactt 2460
agtaaaaatag tttgattttt acctgacagt gtttgtcaaa tttaaaatca tgaatattca 2520
attttataca aacatttata tatatatata tagatttgtg tatgttattt gccaaagaca 2580
gatataaatt acctgggtta atattagtga agaataaata agtgcacaca t 2631

```

<210> 11188  
 <211> 634  
 <212> PRT  
 <213> Homo sapiens

<400> 11188

Met	Ser	Leu	Val	Pro	Ala	Thr	Asn	Tyr	Ile	Tyr	Thr	Pro	Leu	Asn	Gln
1				5					10					15	
Leu	Lys	Gly	Gly	Thr	Ile	Val	Asn	Val	Tyr	Gly	Val	Val	Lys	Phe	Phe
		20					25						30		
Lys	Pro	Pro	Tyr	Leu	Ser	Lys	Gly	Thr	Asp	Tyr	Cys	Ser	Val	Val	Thr
		35					40					45			
Ile	Val	Asp	Gln	Thr	Asn	Val	Lys	Leu	Thr	Cys	Leu	Leu	Phe	Ser	Gly
	50					55					60				
Asn	Tyr	Glu	Ala	Leu	Pro	Ile	Ile	Tyr	Lys	Asn	Gly	Asp	Ile	Val	Arg
65					70					75					80
Phe	His	Arg	Leu	Lys	Ile	Gln	Val	Tyr	Lys	Lys	Glu	Thr	Gln	Gly	Ile
			85						90					95	
Thr	Ser	Ser	Gly	Phe	Ala	Ser	Leu	Thr	Phe	Glu	Gly	Thr	Leu	Gly	Ala
			100					105					110		
Pro	Ile	Ile	Pro	Arg	Thr	Ser	Ser	Lys	Tyr	Phe	Asn	Phe	Thr	Thr	Glu
	115					120						125			
Asp	His	Lys	Met	Val	Glu	Ala	Leu	Arg	Val	Trp	Ala	Ser	Thr	His	Met
130						135					140				
Ser	Pro	Ser	Trp	Thr	Leu	Leu	Lys	Leu	Cys	Asp	Val	Gln	Pro	Met	Gln
145					150					155					160
Tyr	Phe	Asp	Leu	Thr	Cys	Gln	Leu	Leu	Gly	Lys	Ala	Glu	Val	Asp	Gly
			165						170					175	
Ala	Ser	Phe	Leu	Leu	Lys	Val	Trp	Asp	Gly	Thr	Arg	Thr	Pro	Phe	Pro
			180					185					190		
Ser	Trp	Arg	Val	Leu	Ile	Gln	Asp	Leu	Val	Leu	Glu	Gly	Asp	Leu	Ser
		195					200						205		
His	Ile	His	Arg	Leu	Gln	Asn	Leu	Thr	Ile	Asp	Ile	Leu	Val	Tyr	Asp
210						215					220				
Asn	His	Val	His	Val	Ala	Arg	Ser	Leu	Lys	Val	Gly	Ser	Phe	Leu	Arg
225					230						235				240
Ile	Tyr	Ser	Leu	His	Thr	Lys	Leu	Gln	Ser	Met	Asn	Ser	Glu	Asn	Gln
			245						250					255	
Thr	Met	Leu	Ser	Leu	Glu	Phe	His	Leu	His	Gly	Gly	Thr	Ser	Tyr	Gly
		260						265					270		
Arg	Gly	Ile	Arg	Val	Leu	Pro	Glu	Ser	Asn	Ser	Asp	Val	Asp	Gln	Leu
		275					280						285		
Lys	Lys	Asp	Leu	Glu	Ser	Ala	Asn	Leu	Thr	Ala	Asn	Gln	His	Ser	Asp
	290					295						300			
Val	Ile	Cys	Gln	Ser	Glu	Pro	Asp	Asp	Ser	Phe	Pro	Ser	Ser	Gly	Ser
305					310					315					320
Val	Ser	Leu	Tyr	Glu	Val	Glu	Arg	Cys	Gln	Gln	Leu	Ser	Ala	Thr	Ile
			325						330					335	
Leu	Thr	Asp	His	Gln	Tyr	Leu	Glu	Arg	Thr	Pro	Leu	Cys	Ala	Ile	Leu
		340						345					350		
Lys	Gln	Lys	Ala	Pro	Gln	Gln	Tyr	Arg	Ile	Arg	Ala	Lys	Leu	Arg	Ser
		355					360						365		

008270.69463960

-4641/13211-

Tyr Lys Pro Arg Arg Leu Phe Gln Ser Val Lys Leu His Cys Pro Lys  
370 375 380  
Cys His Leu Leu Gln Glu Val Pro His Glu Gly Asp Leu Asp Ile Ile  
385 390 395 400  
Phe Gln Asp Gly Ala Thr Lys Thr Pro Val Val Lys Leu Gln Asn Thr  
405 410 415  
Ser Leu Tyr Asp Ser Lys Ile Trp Thr Thr Lys Asn Gln Lys Gly Arg  
420 425 430  
Lys Val Ala Val His Phe Val Lys Asn Asn Gly Ile Leu Pro Leu Ser  
435 440 445  
Asn Glu Cys Leu Leu Leu Ile Glu Gly Gly Thr Leu Ser Glu Ile Cys  
450 455 460  
Lys Leu Ser Asn Lys Phe Asn Ser Val Ile Pro Val Arg Ser Gly His  
465 470 475 480  
Glu Asp Leu Glu Leu Asp Leu Ser Ala Pro Phe Leu Ile Gln Gly  
485 490 495  
Thr Ile His His Tyr Gly Cys Lys Gln Cys Ser Ser Leu Arg Ser Ile  
500 505 510  
Gln Asn Leu Asn Ser Leu Val Asp Lys Thr Ser Trp Ile Pro Ser Ser  
515 520 525  
Val Ala Glu Ala Leu Gly Ile Val Pro Leu Gln Tyr Val Phe Val Met  
530 535 540  
Thr Phe Thr Leu Asp Asp Gly Thr Gly Val Leu Glu Ala Tyr Leu Met  
545 550 555 560  
Asp Ser Asp Lys Phe Phe Gln Ile Pro Ala Ser Glu Val Leu Met Asp  
565 570 575  
Asp Asp Leu Gln Lys Ser Val Asp Met Ile Met Asp Met Phe Cys Pro  
580 585 590  
Pro Gly Ile Lys Ile Asp Ala Tyr Pro Trp Leu Glu Cys Phe Ile Lys  
595 600 605  
Ser Tyr Asn Val Thr Asn Gly Thr Asp Asn Gln Ile Cys Tyr Gln Ile  
610 615 620  
Phe Asp Thr Thr Val Ala Glu Asp Val Ile  
625 630

<210> 11189  
<211> 2611  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (63).. (2366)

<400> 11189  
aaaataaaga tgactatatc agagacttga aaaggatcat tctctgtttt ctgatagtgt 60  
atatggccat tttagtgggc acagatcagg atttttacag tttacttgga gtgtccaaaa 120

09629469.072800



ctgcaagcag	tagagaaata	agacaagctt	tcaagaaatt	ggcattgaag	ttacatcctg	180
ataaaaaccc	gaataaccca	aatgcacatg	gcgatttttt	aaaaataaat	agagcatatg	240
aagtactcaa	agatgaagat	ctacggaaaa	agtatgacaa	atatggagaa	aagggacttg	300
aggataatca	aggtagccag	tatgaaagct	ggaactatta	tcgttatgat	tttggtatgt	360
atgatgatga	tcctgaaatc	ataacattgg	aaagaagaga	atttgatgct	gctgttaatt	420
ctggagaact	gtggtttgta	aatttttact	ccccaggctg	ttcacactgc	catgatttag	480
ctcccatatg	gagagacttt	gctaaagaag	tggatgggtt	acttcgaatt	ggagctgtta	540
actgtgggtg	tgatagaatg	ctttgccgaa	tgaaaggagt	caacagctat	cccagcctct	600
tcatttttgc	gtctggaatg	gccccagtga	aatatcatgg	agacagatca	aaggagagtt	660
tagtgagttt	tgcaatgcag	catgttagaa	gtacagtgc	agaactttgg	acaggaaatt	720
ttgtcaactc	catacaaact	gcttttgcgt	ctgggtattg	ctggctgac	actttttgtt	780
caaaaggagg	agattgtttg	acttcacaga	cacgactcag	gcttagtggc	atgttggtatg	840
gtcttggtta	tgtaggatgg	atggactgtg	ccaccaggga	taacctttgt	aaaagcttag	900
atattacaac	aagtactact	gcttattttc	ctcctggagc	cacttttaaat	aacaaagaga	960
aaaacagtat	tttgttttctc	aactcattgg	atgctaaaga	aatatatttg	gaagtaatac	1020
ataatcttcc	agatttttgaa	ctactttcgg	caaacacact	agaggatcgt	ttggctcatc	1080
atcgggtggc	gttatttttt	cattttggaa	aaaatgaaaa	ttcaaagtat	cctgagctga	1140
aaaaactaaa	aactctactt	aaaaatgatc	atattcaagt	tggcagggtc	gactgttcct	1200
ctgcaccaga	catctgtagt	aatctgtatg	tttttcagcc	gtctctagca	gtattttaaag	1260
gacaaggaac	caaagaatat	gaaattcatc	atggaaaaga	gattctatat	gatatacttg	1320
cctctgccaa	agaaagtgtg	aattctcatg	ttaccacgct	tggacctcaa	aattttcctg	1380
ccaatgacaa	agaaccatgg	cttggttgatt	tctttgcccc	ctgggtgtcca	ccatgtcgag	1440
ctttactacc	agagttacga	agagcatcaa	atcttcttta	tggtcagctt	aagtttggtg	1500
cactagattg	tacagttcat	gagggactct	gtaacatgta	taacattcag	gcttatccaa	1560
caacagtggg	attcaaccag	tccaacattc	atgagtatga	aggacatcac	tctgctgaac	1620
aaatcttgga	gttcatagag	gatcttatga	atccttcagt	ggtctccctt	acaccacca	1680
ccttcaacga	actagttaca	caaagaaaac	acaacgaagt	ctggatgggt	gatttctatt	1740
ctccgtgggtg	tcctccttgc	caagtcttaa	tgccagaatg	gaaaagaatg	gcccggacat	1800
taactggact	gatcaacgtg	ggcagtatag	attgccaaca	gtatcattct	ttttgtgccc	1860
aggaaaacgt	tcaaagatac	cctgagataa	gattttttcc	cccgaatatc	aataaagctt	1920
atcattatca	cagttacaat	ggttggaata	gggatgctta	ttccctgaga	atctggggtc	1980
taggattttt	acctcaagta	tccacagatc	taacacctca	gactttcagt	gaaaaagttc	2040
tacaaggga	aaatcattgg	gtgattgatt	tctatgctcc	ttgggtgtgga	ccttgccaga	2100
attttgctcc	agaatttgag	ctcttggtta	ggatgattaa	aggaaaagtg	aaagctggaa	2160
aagtagactg	tcaggcttat	gctcagacat	gccagaaaagc	tgggatcagg	gcctatccaa	2220
ctgttaaatt	ttattttctac	gaaagagcaa	agagaaaattt	tcaagaagag	cagataaata	2280
ccagagatgc	aaaagcaatc	gctgccttaa	taagtgaata	attggaaact	ctccgaaatc	2340
aaggcaagag	gaataaggat	gaactttgat	aatgttgaa	atgaagaaaa	agtttaaaag	2400
aaattctgac	agatgacatc	agaagacacc	tatttagaat	gttacattta	tgatgggaat	2460
gaatgaacat	tatcttagac	ttgcagttgt	actgccagaa	ttatctacag	cactgggtgta	2520
aaagaagggt	ctgcaaacctt	tttctgtaaa	gggcccgttt	ataaatattt	tagactttgc	2580
aggctataat	atatggttca	cacatgagaa	c			2611

<210> 11190  
 <211> 768  
 <212> PRT  
 <213> Homo sapiens

09629469-072300



-4644/13211-

Asp His Ile Gln Val Gly Arg Phe Asp Cys Ser Ser Ala Pro Asp Ile  
370 375 380  
Cys Ser Asn Leu Tyr Val Phe Gln Pro Ser Leu Ala Val Phe Lys Gly  
385 390 395 400  
Gln Gly Thr Lys Glu Tyr Glu Ile His His Gly Lys Lys Ile Leu Tyr  
405 410 415  
Asp Ile Leu Ala Ser Ala Lys Glu Ser Val Asn Ser His Val Thr Thr  
420 425 430  
Leu Gly Pro Gln Asn Phe Pro Ala Asn Asp Lys Glu Pro Trp Leu Val  
435 440 445  
Asp Phe Phe Ala Pro Trp Cys Pro Pro Cys Arg Ala Leu Leu Pro Glu  
450 455 460  
Leu Arg Arg Ala Ser Asn Leu Leu Tyr Gly Gln Leu Lys Phe Gly Thr  
465 470 475 480  
Leu Asp Cys Thr Val His Glu Gly Leu Cys Asn Met Tyr Asn Ile Gln  
485 490 495  
Ala Tyr Pro Thr Thr Val Val Phe Asn Gln Ser Asn Ile His Glu Tyr  
500 505 510  
Glu Gly His His Ser Ala Glu Gln Ile Leu Glu Phe Ile Glu Asp Leu  
515 520 525  
Met Asn Pro Ser Val Val Ser Leu Thr Pro Thr Thr Phe Asn Glu Leu  
530 535 540  
Val Thr Gln Arg Lys His Asn Glu Val Trp Met Val Asp Phe Tyr Ser  
545 550 555 560  
Pro Trp Cys His Pro Cys Gln Val Leu Met Pro Glu Trp Lys Arg Met  
565 570 575  
Ala Arg Thr Leu Thr Gly Leu Ile Asn Val Gly Ser Ile Asp Cys Gln  
580 585 590  
Gln Tyr His Ser Phe Cys Ala Gln Glu Asn Val Gln Arg Tyr Pro Glu  
595 600 605  
Ile Arg Phe Phe Pro Pro Lys Ser Asn Lys Ala Tyr His Tyr His Ser  
610 615 620  
Tyr Asn Gly Trp Asn Arg Asp Ala Tyr Ser Leu Arg Ile Trp Gly Leu  
625 630 635 640  
Gly Phe Leu Pro Gln Val Ser Thr Asp Leu Thr Pro Gln Thr Phe Ser  
645 650 655  
Glu Lys Val Leu Gln Gly Lys Asn His Trp Val Ile Asp Phe Tyr Ala  
660 665 670  
Pro Trp Cys Gly Pro Cys Gln Asn Phe Ala Pro Glu Phe Glu Leu Leu  
675 680 685  
Ala Arg Met Ile Lys Gly Lys Val Lys Ala Gly Lys Val Asp Cys Gln  
690 695 700  
Ala Tyr Ala Gln Thr Cys Gln Lys Ala Gly Ile Arg Ala Tyr Pro Thr  
705 710 715 720  
Val Lys Phe Tyr Phe Tyr Glu Arg Ala Lys Arg Asn Phe Gln Glu Glu  
725 730 735  
Gln Ile Asn Thr Arg Asp Ala Lys Ala Ile Ala Ala Leu Ile Ser Glu  
740 745 750

09629469.072800

Lys Leu Glu Thr Leu Arg Asn Gln Gly Lys Arg Asn Lys Asp Glu Leu  
755 760 765

<210> 11191  
<211> 2558  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (165).. (950)

<400> 11191  
gaactgccac ctggaagata cagggtggaaa cccgaaaaca gagtattgta tgggagtttg 60  
aaaaatacca gcgattacta gagaaaaagc agccaccaca tcggcagctg ggggcagagg 120  
tagcagcagc tctggccagc ctacagcggg aggccagcga gaccatgcag aaactggagt 180  
tgaaccatag cgagctcctc cagcagagcc aggtcctgtg gaggatgatt gcagagttga 240  
aagagaggtc gcagaggcct gtccgctgga tgttgcagga tattcaggaa gtgttaaaca 300  
ggagcaaatac ttggagcttg cagcagccag aaccaatctc cctggagttg aagacagatt 360  
gccgtgtgct ggggctaaga gagatcctga agacttatgc agctgatgtg cgcttggatc 420  
cagatactgc ttactcccgt ctcatcgtgt ctgaggacag aaaacgtgtg cactatggag 480  
acaccaacca gaaactgccg gacaatcctg agagatttta ccgtataat atcgtcctgg 540  
gaagccagtg catctcctca ggcaggcact actgggagggt ggaggtggga gacaggtctg 600  
agtggggcct gggagtatgt aagcaaaatg tagaccggaa ggaggtggtc tacttatccc 660  
cccactatgg attctgggtg ataaggctga ggaagggaaa tgagtaccga gcaggcaccg 720  
atgagtaccc aatcctgtcc ttgccggtcc ctccctgccg ggtgggaatc ttcgtggatt 780  
atgaggccca tgacatttct ttctacaatg tgactgactg tggctcccac atcttcaactt 840  
tcccccgcta tcccttccct gggcgccctcc tggcctatit tagtccttgc tacagcattg 900  
gaaccaacaa cactgtcctc ctggccatct gctccctgga tggggaggac taagaaagct 960  
accaccctaa ccacagaggc ttggaattgg gcctggcccc catggggctt ggaggaccga 1020  
gccactgaca ggtatccctt gaaactgagc tgagcccagt atccaaggat tcctctgtct 1080  
gatccttttg tctttgctac caggctgaag tctgtcatga aaccacttat tttaaaaagc 1140  
agaggcccag tcaaatgagc attgcatccc atgagggaag cacgacaggg ctgatggtga 1200  
ggatcagagc agttctaagg tgactcgttg gggtaaggat caggactttg tccatgtagt 1260  
agccaaccac cctcttccct gattcccgtc cgggtgtcaca gttcagtcag tgaggatgat 1320  
gaagtagata cagtcttcag gacaccatta gatgggcttt cccaataggc caaaaaaatg 1380  
ctgcgcatac ccagagctgg ttgttgtgct gaggccagtc agaggatgct tcccctgagg 1440  
tttgcataaa ctaagcaacc tttatgtgac tctcaccttc tgacctcctg gcaagagaaa 1500  
ttcagtgcag caggggggaca cagacctgcc caagccacc cactgccgtt ccctctctga 1560  
gcacaagctg ggcaaatcac tgtcccttgg actccagtag accagtgtcc tagtcttgc 1620  
ttttttctct aagtggcagg atcagaaaac ctgcgagctt tagtttgtat tttaacttta 1680  
tgaatgagga aactgaaatg gccttaaggg agcaagttat ttcttttttt tttagacagg 1740  
agtctcgctc tgttgcccag gctggagtg cagtggcacga tctcggctca ctgcaggctc 1800  
tgccctcctg gttcacgcca ttctcctgcc tcagcttccc gagtagctgg gactacaggc 1860  
gcccaccacg acgcctggct cttttttttg ttttttttagt agagacgggg tttaaccatg 1920  
ttagctagga tggctctgat ctctgacct catgatccgc cctcctcagc ctcccacagt 1980  
gctgggatta gaggcatgag ccactgcgcc cggcccttgg agcaagttat ttcttacaaa 2040

09629469.072800

gctgctgaag gtaagattat caaaattata aagcattttt cacactcaag tgaacaagg 2100  
 ttgacaaact cacttcgcag gtcacatgcc tatacatcac ttattatatt tgggtctgaa 2160  
 acttctcaca tgtttgggag gttttatgtg tcctcattgg gaaaatgggt gtaattcagc 2220  
 ataaaacctc atatgattgt cctgcctcat ggagctgttg tatagatccc agatccatcc 2280  
 catgatttgt tcctgtctga ggcatagagg caggcaagcc gtggattttg cacatgggtga 2340  
 ctttcccact gtgccatgat acagtctgca tcttatagca gtgcctttgt ctcagggcct 2400  
 ctgctggcag tctagacctt ttgggcagaa aggagcttca aatggctgtg ataaggaata 2460  
 ttaaaaattg tgtttctact ttaattgtat tggctgttca tgtatgtagg agttaaaata 2520  
 ggccaaactg gggaaataaa cgcattctgt ccaccatg 2558

<210> 11192

<211> 262

<212> PRT

<213> Homo sapiens

<400> 11192

Met	Gln	Lys	Leu	Glu	Leu	Asn	His	Ser	Glu	Leu	Ile	Gln	Gln	Ser	Gln
1				5					10					15	
Val	Leu	Trp	Arg	Met	Ile	Ala	Glu	Leu	Lys	Glu	Arg	Ser	Gln	Arg	Pro
			20					25					30		
Val	Arg	Trp	Met	Leu	Gln	Asp	Ile	Gln	Glu	Val	Leu	Asn	Arg	Ser	Lys
		35				40						45			
Ser	Trp	Ser	Leu	Gln	Gln	Pro	Glu	Pro	Ile	Ser	Leu	Glu	Leu	Lys	Thr
	50				55						60				
Asp	Cys	Arg	Val	Leu	Gly	Leu	Arg	Glu	Ile	Leu	Lys	Thr	Tyr	Ala	Ala
	65				70					75				80	
Asp	Val	Arg	Leu	Asp	Pro	Asp	Thr	Ala	Tyr	Ser	Arg	Leu	Ile	Val	Ser
			85						90					95	
Glu	Asp	Arg	Lys	Arg	Val	His	Tyr	Gly	Asp	Thr	Asn	Gln	Lys	Leu	Pro
			100					105					110		
Asp	Asn	Pro	Glu	Arg	Phe	Tyr	Arg	Tyr	Asn	Ile	Val	Leu	Gly	Ser	Gln
	115					120						125			
Cys	Ile	Ser	Ser	Gly	Arg	His	Tyr	Trp	Glu	Val	Glu	Val	Gly	Asp	Arg
	130				135						140				
Ser	Glu	Trp	Gly	Leu	Gly	Val	Cys	Lys	Gln	Asn	Val	Asp	Arg	Lys	Glu
	145			150						155					160
Val	Val	Tyr	Leu	Ser	Pro	His	Tyr	Gly	Phe	Trp	Val	Ile	Arg	Leu	Arg
			165					170						175	
Lys	Gly	Asn	Glu	Tyr	Arg	Ala	Gly	Thr	Asp	Glu	Tyr	Pro	Ile	Leu	Ser
		180						185					190		
Leu	Pro	Val	Pro	Pro	Arg	Arg	Val	Gly	Ile	Phe	Val	Asp	Tyr	Glu	Ala
	195					200						205			
His	Asp	Ile	Ser	Phe	Tyr	Asn	Val	Thr	Asp	Cys	Gly	Ser	His	Ile	Phe
	210				215					220					
Thr	Phe	Pro	Arg	Tyr	Pro	Phe	Pro	Gly	Arg	Leu	Leu	Pro	Tyr	Phe	Ser
	225			230						235					240
Pro	Cys	Tyr	Ser	Ile	Gly	Thr	Asn	Asn	Thr	Ala	Pro	Leu	Ala	Ile	Cys

00629469.072800

245  
Ser Leu Asp Gly Glu Asp  
260

250

255

<210> 11193  
<211> 2544  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (381).. (938)

<400> 11193  
aaaaaaacaa ataccgaatt tccaacattc catcactaat attcctcgac gccaccactg 60  
ggaaggttgt gtgcaggaac gggctgctgg tgatccgaga tgaccagaa ggtctggagt 120  
tcccctgggg accgaaaccc ttcagggaag tcattgcagg gcccttgctt agaaacaatg 180  
ggcagttctt ggagagcagc agcctggagg ggtctcacgt gggcgtctat ttctccgcac 240  
attggtgtcc gccctgccga agcctcaccg gggctcctgt ggaatcctac cggaagatca 300  
aggaggcagg ccagaacttc gagatcatct tcgttagtgc agacaggctc gaggagtcct 360  
tcaaacagta cttcagttag atgccctggc tcgccgtccc ctacacggat gaggcccggc 420  
ggtcgcgcct caaccggctg tacggaatcc aaggcatccc cagctcatc atgctggacc 480  
cgcagggcga ggtgatcacg cggcaggggc gggtaggagt gctgaacgac gaggactgcc 540  
gggagttccc ctggcaccgc aagcccgtgc tggagctctc cgactccaac gccgcgcagc 600  
ttaacgaggg cccctgcctc gtcctttttg tagattctga ggatgacgga ggtccgagg 660  
cggccaagca gctgattcag ccgatagctg agaaaatcat tgccaagtac aaagccaaag 720  
aggaggaggc accccttctg ttcttcgtag ccggggaggga tgacatgact gactccctgc 780  
gagattacac caacctgcct gaggctgccc ctttgctcac catcctggac atgtcagccc 840  
gggccaagta cgtgatggac gtggaggaga tcacccccgc catcgtggag gcctttgtga 900  
atgacttcct agcagagaag ctcaaaccgg agcccattca gcgtggctcc ggccctctga 960  
gacgttatctt aaaactcagc cttctcctcc tccccctcct tccttccgcc cttggactta 1020  
cccagcgtgc cccgaatccc accacccaag tgtccagcct ctctgtggtg ccttgtttct 1080  
gcagtaaaact cctcagccag caccctgggg tgtggaatca gcagcggcag agtccaccgt 1140  
gtttggagac tctgtttggg agcacgggat ggccgggggc ccggccagag cggggctgca 1200  
tggctttcgc aaagtcacta gcttttggtg aaggatctgc cagggtgtcc tgggcagagt 1260  
gagcgtggag ggccggtggg tcccgctcgg gctctgactc tgacgtcggc acacacggcc 1320  
ccggacggcc agaggggaac cgccgggtga cacctgcgtg gaggctgagc tgagaaaggg 1380  
cctccgctta gagctgcggg tgaggacgtc cttttctaag caacacagtc ttctcggtc 1440  
tgagagaaaa gcagccact cttgtgttct caggcagggg atctccaaat gcaaaaggaa 1500  
gctttagtag gtttttggg tgagaagaaa aatgtagcta aggtaatggt tcatatcata 1560  
caaacagctc ccacgatcct gaaattctgt taacgaatcc ttctctttgg acatcttccc 1620  
aagaaaactta gccctgagtc ctaggaggag caccctctgca ccagcagga cctctcgtc 1680  
caccagctc tgtgcccaag gccctgato tctgctgagg tgcccacacc cagttcgat 1740  
caccctgccc attccctttt attttctttt ttttgagatg gactcttgct ctgtcggcca 1800  
ggctggagtg cagtggcacc atcttggctc acttcaacct ccgcccccaa ggttcaagt 1860  
attctcctgc ctacgcctcc cgagtagctg ggattacagg caccgcccac cgtacctggc 1920  
taatttttgt attttttagta gagatggggt ttcaccatgt tggctaggct ggtctcgaac 1980

09529459.072300

```

tcttgacctc aggtgatcca ccgcctcgg cctcccaaag tgctgggatt acaggcgtga 2040
gccgccgtgc ccggccccct tttcttttca aagcagaact acaaagatga gaaattacca 2100
gaagcctcgc cttttcctaa gcaccagcgg aaggagctgt gccccgggat ggagcgaggg 2160
tggagggcgc gtcagccacg ggtgggcott gtgtcgcott gtatcggccc aggtaggttg 2220
ttggcctctt acttgggctg acctgacccc cgaaaagagaa acagacaact ctgttctcag 2280
gattggggat ggacggcttc ggccaagcgt tttagcctca ttcactcagg cccactcag 2340
cactctgcca gccaaagacca ttgatttga aaatccggtc cccacccgct aatgagctgt 2400
tgacactgtt gttccttgct gaattggatt gttgacttgt agttcagagg cgtacaacta 2460
gttggcgatt agacttgta tgtgatgta ccagcctgaa atgcgatcac cccgtaggaa 2520
ataaagcagg catctctgga cctc                                     2544

```

<210> 11194  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens

<400> 11194

Met	Pro	Trp	Leu	Ala	Val	Pro	Tyr	Thr	Asp	Glu	Ala	Arg	Arg	Ser	Arg
1				5					10					15	
Leu	Asn	Arg	Leu	Tyr	Gly	Ile	Gln	Gly	Ile	Pro	Thr	Leu	Ile	Met	Leu
			20					25					30		
Asp	Pro	Gln	Gly	Glu	Val	Ile	Thr	Arg	Gln	Gly	Arg	Val	Glu	Val	Leu
		35				40						45			
Asn	Asp	Glu	Asp	Cys	Arg	Glu	Phe	Pro	Trp	His	Pro	Lys	Pro	Val	Leu
		50				55					60				
Glu	Leu	Ser	Asp	Ser	Asn	Ala	Ala	Gln	Leu	Asn	Glu	Gly	Pro	Cys	Leu
					70					75					80
Val	Leu	Phe	Val	Asp	Ser	Glu	Asp	Asp	Gly	Glu	Ser	Glu	Ala	Ala	Lys
				85					90					95	
Gln	Leu	Ile	Gln	Pro	Ile	Ala	Glu	Lys	Ile	Ile	Ala	Lys	Tyr	Lys	Ala
			100					105					110		
Lys	Glu	Glu	Glu	Ala	Pro	Leu	Leu	Phe	Phe	Val	Ala	Gly	Glu	Asp	Asp
		115				120						125			
Met	Thr	Asp	Ser	Leu	Arg	Asp	Tyr	Thr	Asn	Leu	Pro	Glu	Ala	Ala	Pro
		130				135					140				
Leu	Leu	Thr	Ile	Leu	Asp	Met	Ser	Ala	Arg	Ala	Lys	Tyr	Val	Met	Asp
145					150					155					160
Val	Glu	Glu	Ile	Thr	Pro	Ala	Ile	Val	Glu	Ala	Phe	Val	Asn	Asp	Phe
			165						170					175	
Leu	Ala	Glu	Lys	Leu	Lys	Pro	Glu	Pro	Ile						
			180					185							

<210> 11195  
 <211> 1846  
 <212> DNA  
 <213> Homo sapiens

<220>  
<221> CDS  
<222> (5).. (1168)

<400> 11195

```

tcgcatgaag atgaccaaaa acaaagggct ggatgtttgc aattggactg atggggatga 60
gatgcagtgg ggcccagcca gggcagagga ggagcatggg gtctatgtgt atgacctgat 120
ggctactgtg gtacacatcc tggactcacg cacagggggc agcctgggtg ctcacatcaa 180
agttggagag acctaccacc agcgcaagga gggcgttact caccagcagt ggtatctgtt 240
caatgacttt cttattgaac ctattgataa gcatgaagct gtgcagtttg acatgaattg 300
gaaagtacct gcaatccttt attatgtcaa acggaatctc aattccagat acaacctgaa 360
catcaagaac cctattgagg caagtgtctt gctggctgaa gcctcgtctg cacggaagca 420
gcggaaaaca catactacct ttattccact gatgctgaat gagatgccac agattgggga 480
cctgggtggg ctggatgctg agtttgtcac ccttaatgag gaggaagcag agttacgcag 540
tgatggtacc aagtctacca ttaaaccaag ccagatgtca gtagccagga ttacctgtgt 600
tcggggccag ggacccaatg agggtatccc cttcattgat gactacatct ctaccaggga 660
gcaggtgggt gattacttga ctcaatactc gggataaaag cctgggtggc tcgatgccaa 720
aatttcctcc aagcacctaa caactctcaa gtctacctac ttaaagcttc gttttctcat 780
tgacattgga gtcaagtttg tgggtcatgg cctgcagaag gacttccggg tcatcaacct 840
gatggtgccc aaggaccaag tccttgacac tgtctacctg ttccatatgc cccgaaaacg 900
aatgatttcc ctgcgattcc ttgcttggtg ctttctggac ctgaagattc aaggggaaac 960
ccatgacagt attgaggatg cccgcacagc ccttcagctg taccgaaagt atctggagct 1020
aagcaaaaat ggcactgagc ctgagtcctt ccacaagggt ctcaagggtc tttatgagaa 1080
gggcagaaaag atggactgga aggtgcctga gcctgagggc caaacaagtc ccaagaatgc 1140
agctgtcttc tcctcagtg c tggcgtctg actacccttc ccaaagaacc acggccctct 1200
ccctttactg ttctatagcc ccagaactgg gagatggctt cctaagttgg ctataccttg 1260
tccacttcca gtactggacg tgctcagggt ctaggggtcac agatgggtgt attaatgaa 1320
ctggaacaca gcagaattgt tgcaaagggt ctagggagcca gattcattcc ttcttcattc 1380
tttgcaaaac agtggtacag acatggagtc tagaattgac ccagatggaa agtaattggg 1440
attcttaata tcctgggtga ctaatatcca ggcagagaag ctccctggaac cataactgta 1500
agttcctagc tggctagggg ttgaagtcct ggacagtgc agaggatacc acagtagttc 1560
aagacttagc acaagtcacc aactgcttca gggatacctg gaggggccag caagtagagt 1620
gttggtggcc caagcaaacc agtggttgcca ataccattgc caaaagggcc tttggatcct 1680
ggacaaaagc tggctgccgg cttcatttat tcctgctgat ggctgagaag catctgtctt 1740
ccatccccact tgctgtccc aagttttgtt ccatttttta aaaatttgtt gtaaactgca 1800
tgttttataa aataaaaata aaatatcggt tgttatttat ctcat 1846

```

<210> 11196  
<211> 388  
<212> PRT  
<213> Homo sapiens

<400> 11196

```

Met Lys Met Thr Lys Asn Lys Gly Leu Asp Val Cys Asn Trp Thr Asp
  1             5             10             15
Gly Asp Glu Met Gln Trp Gly Pro Ala Arg Ala Glu Glu Glu His Gly

```





<210> 11197  
<211> 2067  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (72).. (1550)

<400> 11197

```
atacttgtgc ggttccaagt gtggagaaag cggctctggg tctagattga gggatactcc 60
ccctttccac catgggcaag aagggcaaag ttggcaagag cggacgagac aagttttatc 120
acttggcgaa ggagacgggt taccgttccc gatctgcttt caagctgac cagctcaatc 180
gccgctttca gttcctgcag aaagcccag ccttgctgga cctgtgtgct gcgccagggg 240
gatggctgca ggtagctgcc aagtttatgc ctgtatccag ccttattgtg ggagtggacc 300
tggttccaat caagcctctc cccaatgtgg tgaactctca ggaggacatc acaacagaac 360
gtttaggca ggccctgagg aaggagctga agacctggaa ggttgatgtt gtgctcaatg 420
atggggcccc caacgttggg gctagctggg tccatgatgc ttactcaciaa gccatttga 480
cactgatggc tctacgtttg gcttgtgact ttttggcccc tgggtggcagc ttcatacaciaa 540
aggttttccg ttctcgtgac tatcagcctc tgctatggat ctttcagcag ctgttccgcc 600
gtgtccaggc caccaagccc caagcctctc gccatgaatc tgcagagatc tttgtagtct 660
gccaaggatt cctggccccct gacaagggtt acagtaaatt ctttgacccc aaatttgcct 720
ttaaggaggt tgaagttcag gctaagaccg ttactgaatt ggttactaag aagaagccaa 780
aggctgaagg ctatgctgag ggtgacctca ctctctatca ccgtacctca gtcactgact 840
tcctccgagc tgccaaccct gttgacttcc tctccaaggc cagcgaatc atggtagatg 900
atgaagagtt ggcacagcat ccagctacca ctgaggacat acgggtgtgc tgtcaggaca 960
tcagagtgtt gggcgcgcaag gagctcaggt cgctactaaa ctggagaaca aaacttcggc 1020
gatatgtggc caagaagctg aaagaacaag caaaggcact ggacatcagc ctcagctctg 1080
gagagggaaga tgaagtgat gaggaggact caacagctgg aaccacaaag cagccctcta 1140
aggaggagga ggaagaggag gaggaggaac aactgaacca gaccttggca gaaatgaagg 1200
cccaggaggt ggcggaattg aagaggaaga aaaagaagct gttgcgtgag cagagaaagc 1260
agcgggagcg tgtggagctg aagatggatc tgccctgggg ttccattgca gacgaggggg 1320
agactggcat gttctccttg tgcaccatcc ggggtcacca gttattagag gaagtaacac 1380
aaggggatat gactgcagca gacacatttc tgtccgatct gccaaaggat gatattctatg 1440
tgttaatcat tttccttata tgcttcctag tccgttatgc ccttttccta acaactcaciaa 1500
caaaaactaac taataactaac atctcagacg ctcaggaaat agaaaccgtc tgaactatcc 1560
tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcatcctt tacataacag 1620
acgaggtcaa cgatccctcc cttaccatca aatcaattgg ccaccaatgg tactgaacct 1680
acgagtacac cgactacggc ggactaatct tcaactccta catacttccc ccattattcc 1740
tagaaccagg cgacctgcga ctccctgacg ttgacaatcg agtagtactc ccgattgaag 1800
ccccattcg tataataatt acatcacaaag acgtcttgca ctcatgagct gtccccacat 1860
taggottaaa aacagatgca attcccggac gtctaaacca aaccactttc accgotacac 1920
gaccgggggt atactacgggt caatgctctg aaatctgtgg agcaaaccac agtttcatgc 1980
ccatcgtcct agaattaatt ccctaaaaa tctttgaaat agggcccgta tttaccctat 2040
agcaccacct ctacccctc tagagcc 2067
```

09529469.072800

<210> 11198  
<211> 493  
<212> PRT  
<213> Homo. sapiens

<400> 11198

Met	Gly	Lys	Lys	Gly	Lys	Val	Gly	Lys	Ser	Arg	Arg	Asp	Lys	Phe	Tyr
1				5					10					15	
His	Leu	Ala	Lys	Glu	Thr	Gly	Tyr	Arg	Ser	Arg	Ser	Ala	Phe	Lys	Leu
			20					25					30		
Ile	Gln	Leu	Asn	Arg	Arg	Phe	Gln	Phe	Leu	Gln	Lys	Ala	Arg	Ala	Leu
		35					40					45			
Leu	Asp	Leu	Cys	Ala	Ala	Pro	Gly	Gly	Trp	Leu	Gln	Val	Ala	Ala	Lys
	50					55					60				
Phe	Met	Pro	Val	Ser	Ser	Leu	Ile	Val	Gly	Val	Asp	Leu	Val	Pro	Ile
65					70					75					80
Lys	Pro	Leu	Pro	Asn	Val	Val	Thr	Leu	Gln	Glu	Asp	Ile	Thr	Thr	Glu
				85					90					95	
Arg	Cys	Arg	Gln	Ala	Leu	Arg	Lys	Glu	Leu	Lys	Thr	Trp	Lys	Val	Asp
			100					105					110		
Val	Val	Leu	Asn	Asp	Gly	Ala	Pro	Asn	Val	Gly	Ala	Ser	Trp	Val	His
		115					120					125			
Asp	Ala	Tyr	Ser	Gln	Ala	His	Leu	Thr	Leu	Met	Ala	Leu	Arg	Leu	Ala
	130					135					140				
Cys	Asp	Phe	Leu	Ala	Arg	Gly	Gly	Ser	Phe	Ile	Thr	Lys	Val	Phe	Arg
145					150					155					160
Ser	Arg	Asp	Tyr	Gln	Pro	Leu	Leu	Trp	Ile	Phe	Gln	Gln	Leu	Phe	Arg
				165					170					175	
Arg	Val	Gln	Ala	Thr	Lys	Pro	Gln	Ala	Ser	Arg	His	Glu	Ser	Ala	Glu
			180					185					190		
Ile	Phe	Val	Val	Cys	Gln	Gly	Phe	Leu	Ala	Pro	Asp	Lys	Val	Asp	Ser
		195					200					205			
Lys	Phe	Phe	Asp	Pro	Lys	Phe	Ala	Phe	Lys	Glu	Val	Glu	Val	Gln	Ala
	210					215					220				
Lys	Thr	Val	Thr	Glu	Leu	Val	Thr	Lys	Lys	Lys	Pro	Lys	Ala	Glu	Gly
225					230					235					240
Tyr	Ala	Glu	Gly	Asp	Leu	Thr	Leu	Tyr	His	Arg	Thr	Ser	Val	Thr	Asp
				245					250					255	
Phe	Leu	Arg	Ala	Ala	Asn	Pro	Val	Asp	Phe	Leu	Ser	Lys	Ala	Ser	Glu
			260					265					270		
Ile	Met	Val	Asp	Asp	Glu	Glu	Leu	Ala	Gln	His	Pro	Ala	Thr	Thr	Glu
		275					280					285			
Asp	Ile	Arg	Val	Cys	Cys	Gln	Asp	Ile	Arg	Val	Leu	Gly	Arg	Lys	Glu
	290					295					300				
Leu	Arg	Ser	Leu	Leu	Asn	Trp	Arg	Thr	Lys	Leu	Arg	Arg	Tyr	Val	Ala
305					310					315					320
Lys	Lys	Leu	Lys	Glu	Gln	Ala	Lys	Ala	Leu	Asp	Ile	Ser	Leu	Ser	Ser
				325					330					335	

09629469.072300

Gly Glu Glu Asp Glu Gly Asp Glu Glu Asp Ser Thr Ala Gly Thr Thr  
 340 345 350  
 Lys Gln Pro Ser Lys Glu Glu Glu Glu Glu Glu Glu Glu Glu Gln Leu  
 355 360 365  
 Asn Gln Thr Leu Ala Glu Met Lys Ala Gln Glu Val Ala Glu Leu Lys  
 370 375 380  
 Arg Lys Lys Lys Lys Leu Leu Arg Glu Gln Arg Lys Gln Arg Glu Arg  
 385 390 395 400  
 Val Glu Leu Lys Met Asp Leu Pro Gly Val Ser Ile Ala Asp Glu Gly  
 405 410 415  
 Glu Thr Gly Met Phe Ser Leu Cys Thr Ile Arg Gly His Gln Leu Leu  
 420 425 430  
 Glu Glu Val Thr Gln Gly Asp Met Ser Ala Ala Asp Thr Phe Leu Ser  
 435 440 445  
 Asp Leu Pro Arg Asp Asp Ile Tyr Val Leu Ile Ile Phe Leu Ile Cys  
 450 455 460  
 Phe Leu Val Leu Tyr Ala Leu Phe Leu Thr Leu Thr Thr Lys Leu Thr  
 465 470 475 480  
 Asn Thr Asn Ile Ser Asp Ala Gln Glu Ile Glu Thr Val  
 485 490

<210> 11199  
 <211> 2390  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (119).. (2080)

<400> 11199  
 cagactcgca gggatcagag atttcaagca gggacgccac cttotaacag tgctactgaa 60  
 attgttcagt tactgcgtga aggtgaaagt caaccggcag caactgggtca aactggaaat 120  
 gaacacccctg aacgtcatgc tggggaccct aaacctggcc cttgtagctg aacaagaaag 180  
 caaggacagt gggggtgcag ctgtggctga gcagggtgctt agcatcatgg agatcattct 240  
 agatgagtcc aatgctgagc ccctgagtga ggacaagggc aacctcctcc tgacaggtga 300  
 caaggatcaa ctgggtgatgc tcttggaacca gatcaacggc acctttgttc gctccaaccc 360  
 cagtgtgctc cagggcctgc ttgcgcatcat cccgtacctt tcctttggag aggtggagaa 420  
 aatgcagatc ttggtggagc gattcaaacc atactgcaac ttgataaat atgatgaaga 480  
 tcacagtggg gatgataaag tcttccttga ctgcttctgt aaaatagctg ctggcatcaa 540  
 gaacaacagc aatgggcacc agctgaagga tctgattctc cagaaggga tcaccagaa 600  
 tgcacttgac tacatgaaaa agcacatccc tagcgccaag aatttgatg ccgacatctg 660  
 gaaaaagtgt ttgtctcgcc cagccttgcc atttatccta aggctgcttc ggggcctggc 720  
 catccagcac cctggcacc aggttctgat tggaactgat tccatcccga acctgcataa 780  
 gctggagcag gtgtccagt atgagggcat tgggaccttg gcagagaacc tgctggaagc 840  
 cctgcgggaa caccctgacg taaacaagaa gattgacgca gcccgaggg agaccgggc 900  
 agagaagaaa cgcatggcca tggcaatgag gcagaaggcc ctgggcaccc tgggcatgac 960

09629469.072800

```

gacaaatgaa aagggccagg tcgtgaccaa gacagcactc ctgaagcaga tggaagagct 1020
gatcgaggag cctggcctca cgtgctgcat ctgcaggagg ggatacaagt tccagcccac 1080
aaaggtcctg ggcatittata ccttcacgaa gcgggtagcc ttggaggagt tggagaataa 1140
gccccggaaa cagcagggtt acagcacctg gtcccaactt aacattgtgc actacgactg 1200
ccatctgggt gccgtcaggt tggctcgagg ccgggaagag tgggagagtg ccgccctgca 1260
gaatgccaac accaagtgca acgggctcct tccggtctgg ggacctcatg tccctgaatc 1320
agcttttgcc acttgcttgg caagacacaa cacttacctc caggaaatga caggccagcg 1380
ggagcccacg tatcagctca acatccacga catcaaactg ctcttcctgc gcttcgcat 1440
ggagcagtcg ttcagcgcag acaactggcg ggccggccgg gagagcaaca tccacctgat 1500
cccgtacatc attcacactg tgcctttacgt cctgaacaca acccgagcaa cttcccgaga 1560
agagaagaac ctccaaggct ttctggaaca gcccaagggg aagtgggtgg agagtgcctt 1620
tgaagtggac gggccctact atttcacagt cttggccctt cacatcctgc cccctgagca 1680
gtggagagcc acacgtgtgg aaatcttggc gaggtgttgg gtgacctcgc aggctcgggc 1740
agtggctcca ggtggagcca ccaggctgac agataaggca gtgaaggact attccgctta 1800
ccgttcttcc cttctctttt gggccctcgt cgatctcatt tacaacatgt ttaagaaggt 1860
gcctaccagt aacacagagg gaggtctggtc ctgctctctc gctgagtaca tccgccacaa 1920
cgacatgccc atctacgaag ctgccgacaa agccctgaaa accttccagg aggagttcat 1980
gccagtggag accttctcag agttcctcga tgtggccggc cttttatcag aaatcaccca 2040
tccagagagc ttcctgaagg acctgttgaa ctacgtcccc tgaccaccac acagcagctg 2100
cggcggcgaa gacgaagctg gcttgccttc caccctctgt tctccctcct tgtgcattaa 2160
gttccctccg cgggatgctg cattgttacc ccgcccctcc ctctctcatt tttcttgggt 2220
tggtctgggg ttttaggctt tcctgtttta tctcgtgtgt gtggtgcacc agctatgagg 2280
ttgtctgtaa cccaagccat caaagggcct gtacatacct aggagccatg agttgtcccg 2340
gccagcttcg tacttgagtg tgcacatctt gagaaataaa caagtgactt 2390

```

<210> 11200  
 <211> 654  
 <212> PRT  
 <213> Homo sapiens

<400> 11200

Met	Asn	Thr	Leu	Asn	Val	Met	Leu	Gly	Thr	Leu	Asn	Leu	Ala	Leu	Val
1				5				10						15	
Ala	Glu	Gln	Glu	Ser	Lys	Asp	Ser	Gly	Gly	Ala	Ala	Val	Ala	Glu	Gln
			20					25					30		
Val	Leu	Ser	Ile	Met	Glu	Ile	Ile	Leu	Asp	Glu	Ser	Asn	Ala	Glu	Pro
		35				40					45				
Leu	Ser	Glu	Asp	Lys	Gly	Asn	Leu	Leu	Leu	Thr	Gly	Asp	Lys	Asp	Gln
	50				55					60					
Leu	Val	Met	Leu	Leu	Asp	Gln	Ile	Asn	Gly	Thr	Phe	Val	Arg	Ser	Asn
65				70				75						80	
Pro	Ser	Val	Leu	Gln	Gly	Leu	Leu	Arg	Ile	Ile	Pro	Tyr	Leu	Ser	Phe
			85				90						95		
Gly	Glu	Val	Glu	Lys	Met	Gln	Ile	Leu	Val	Glu	Arg	Phe	Lys	Pro	Tyr
	100					105					110				
Cys	Asn	Phe	Asp	Lys	Tyr	Asp	Glu	Asp	His	Ser	Gly	Asp	Asp	Lys	Val
	115					120					125				

09629469.072300

Phe Leu Asp Cys Phe Cys Lys Ile Ala Ala Gly Ile Lys Asn Asn Ser  
130 135 140  
Asn Gly His Gln Leu Lys Asp Leu Ile Leu Gln Lys Gly Ile Thr Gln  
145 150 155 160  
Asn Ala Leu Asp Tyr Met Lys Lys His Ile Pro Ser Ala Lys Asn Leu  
165 170 175  
Asp Ala Asp Ile Trp Lys Lys Phe Leu Ser Arg Pro Ala Leu Pro Phe  
180 185 190  
Ile Leu Arg Leu Leu Arg Gly Leu Ala Ile Gln His Pro Gly Thr Gln  
195 200 205  
Val Leu Ile Gly Thr Asp Ser Ile Pro Asn Leu His Lys Leu Glu Gln  
210 215 220  
Val Ser Ser Asp Glu Gly Ile Gly Thr Leu Ala Glu Asn Leu Leu Glu  
225 230 235 240  
Ala Leu Arg Glu His Pro Asp Val Asn Lys Lys Ile Asp Ala Ala Arg  
245 250 255  
Arg Glu Thr Arg Ala Glu Lys Lys Arg Met Ala Met Ala Met Arg Gln  
260 265 270  
Lys Ala Leu Gly Thr Leu Gly Met Thr Thr Asn Glu Lys Gly Gln Val  
275 280 285  
Val Thr Lys Thr Ala Leu Leu Lys Gln Met Glu Glu Leu Ile Glu Glu  
290 295 300  
Pro Gly Leu Thr Cys Cys Ile Cys Arg Glu Gly Tyr Lys Phe Gln Pro  
305 310 315 320  
Thr Lys Val Leu Gly Ile Tyr Thr Phe Thr Lys Arg Val Ala Leu Glu  
325 330 335  
Glu Leu Glu Asn Lys Pro Arg Lys Gln Gln Gly Tyr Ser Thr Val Ser  
340 345 350  
His Phe Asn Ile Val His Tyr Asp Cys His Leu Ala Ala Val Arg Leu  
355 360 365  
Ala Arg Gly Arg Glu Glu Trp Glu Ser Ala Ala Leu Gln Asn Ala Asn  
370 375 380  
Thr Lys Cys Asn Gly Leu Leu Pro Val Trp Gly Pro His Val Pro Glu  
385 390 395 400  
Ser Ala Phe Ala Thr Cys Leu Ala Arg His Asn Thr Tyr Leu Gln Glu  
405 410 415  
Cys Thr Gly Gln Arg Glu Pro Thr Tyr Gln Leu Asn Ile His Asp Ile  
420 425 430  
Lys Leu Leu Phe Leu Arg Phe Ala Met Glu Gln Ser Phe Ser Ala Asp  
435 440 445  
Thr Gly Gly Gly Gly Arg Glu Ser Asn Ile His Leu Ile Pro Tyr Ile  
450 455 460  
Ile His Thr Val Leu Tyr Val Leu Asn Thr Thr Arg Ala Thr Ser Arg  
465 470 475 480  
Glu Glu Lys Asn Leu Gln Gly Phe Leu Glu Gln Pro Lys Gly Lys Trp  
485 490 495  
Val Glu Ser Ala Phe Glu Val Asp Gly Pro Tyr Tyr Phe Thr Val Leu  
500 505 510

09629469-072800

-4656/13211-

Ala Leu His Ile Leu Pro Pro Glu Gln Trp Arg Ala Thr Arg Val Glu  
515 520 525  
Ile Leu Arg Arg Leu Leu Val Thr Ser Gln Ala Arg Ala Val Ala Pro  
530 535 540  
Gly Gly Ala Thr Arg Leu Thr Asp Lys Ala Val Lys Asp Tyr Ser Ala  
545 550 555 560  
Tyr Arg Ser Ser Leu Leu Phe Trp Ala Leu Val Asp Leu Ile Tyr Asn  
565 570 575  
Met Phe Lys Lys Val Pro Thr Ser Asn Thr Glu Gly Gly Trp Ser Cys  
580 585 590  
Ser Leu Ala Glu Tyr Ile Arg His Asn Asp Met Pro Ile Tyr Glu Ala  
595 600 605  
Ala Asp Lys Ala Leu Lys Thr Phe Gln Glu Glu Phe Met Pro Val Glu  
610 615 620  
Thr Phe Ser Glu Phe Leu Asp Val Ala Gly Leu Leu Ser Glu Ile Thr  
625 630 635 640  
Asp Pro Glu Ser Phe Leu Lys Asp Leu Leu Asn Ser Val Pro  
645 650

<210> 11201  
<211> 1540  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (204).. (590)

<400> 11201  
cccgttcctg caccagcccc gcaccctccc cagaaggctg gtogccctgg tctgagtgga 60  
gtaagtgcac tgacgacgga gccagagacc gaagcoggca ctgtgaggag ctccctcccag 120  
gggtccagcgc ctgtgctgga aacagcagcc agagccggcc ctgcccctac agcgagattc 180  
ccgtcatcct gccagcctcc agcatggagg aggccaccgg ctgtgcaggg ttcaatctca 240  
tccacttggg ggccacgggc atctcctgct tcttgggctc tgggctcctg accctagcag 300  
tgtacctgtc ttgccagcac tgccagcgtc agtcccagga gtccacactg gtccatcctg 360  
ccacccccaa ccatttgcac tacaagggcg gaggcacccc gaagaatgaa aagtacacac 420  
ccatggaatt caagaccctg aacaagaata acttgatccc tgatgacaga gccaaacttct 480  
acccattgca gcagaccaat gtgtacacga ctacttacta cccaagcccc ctgaacaaac 540  
acagcttccg gcccgaggcc tcacctggac aacgggtgctt cccaacagc tgataccgcc 600  
gtcctgggga cttgggcttc ttgccttcat aaggcacaga gcagatggag atgggacagt 660  
ggagccagtt tggttttctc cctctgcact aggccaaagaa cttgtctgct tgccctgtggg 720  
gggtcccac cggcttcaga gagctctggc tggcattgac catgggggaa agggctggtt 780  
tcaggctgac atatggccgc aggtccagtt cagcccaggt ctctcatggt tatcttccaa 840  
cccactgtca cgctgacact atgctgccat gcctgggctg tggacctact gggcatttga 900  
ggaattggag aatggagatg gcaagagggc gggcttttaa gtttgggttg gagacaactt 960  
cctgtggccc ccacaagctg agtctggcct tctccagctg gccccaaaaa aggcctttgc 1020  
tacatcctga ttatctctga aagtaatcaa tcaagtggct ccagtagctc tggattttct 1080

09629469.072300

-4657/13211-

gccagggctg ggccattgtg gtgctgcccc agtatgacat gggaccaagg ccagcgcagg 1140  
ttatccacct ctgcctggaa gtctatactc taccagggc atccctctgg tcagaggcag 1200  
tgagtactgg gaactggagg ctgacctgtg ottagaagtc ctttaatctg ggctggtaca 1260  
ggcctcagcc ttgccctcaa tgcacgaaag gtggcccagg agagaggatc aatgccatag 1320  
gaggcagaag tctggcctct gtgcctctat ggagactatc tticagttgc tgctcaacag 1380  
agttgttggc tgagacctgc ttgggagctc ctgctggccc ttcatctgtt caggaacaca 1440  
cacacacaca cactcacaca cgcacacaca atcacaattt gctacagcaa caaaaaagac 1500  
attgggctgt ggcattatta attaaagatg atatccagtc 1540

<210> 11202

<211> 129

<212> PRT

<213> Homo sapiens

<400> 11202

Met Glu Glu Ala Thr Gly Cys Ala Gly Phe Asn Leu Ile His Leu Val  
1 5 10 15  
Ala Thr Gly Ile Ser Cys Phe Leu Gly Ser Gly Leu Leu Thr Leu Ala  
20 25 30  
Val Tyr Leu Ser Cys Gln His Cys Gln Arg Gln Ser Gln Glu Ser Thr  
35 40 45  
Leu Val His Pro Ala Thr Pro Asn His Leu His Tyr Lys Gly Gly Gly  
50 55 60  
Thr Pro Lys Asn Glu Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn  
65 70 75 80  
Lys Asn Asn Leu Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln  
85 90 95  
Gln Thr Asn Val Tyr Thr Thr Thr Tyr Tyr Pro Ser Pro Leu Asn Lys  
100 105 110  
His Ser Phe Arg Pro Glu Ala Ser Pro Gly Gln Arg Cys Phe Pro Asn  
115 120 125  
Ser

<210> 11203

<211> 1570

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (130).. (939)

<400> 11203

aacgggatgg ggagctggac cagcagatta tgagcttaca gaaagcctgg cctacatttt 60  
actotittttg gattttctcc tcatcaagag actgctgcag tgcctgtcat gtgacagcgg 120

0032/0'69462960



```

catggacata tgccccaggc tttcctgctg gggcccatcc atgagcctgc aggtgccctc 180
atggagcccc agccctgccc tggaagcttg gctgagagct tcctggagga ggagcttcgg 240
ctcaatgctg agctgagcca gctgcagttt tcggagcctg tgggcatcat ctacaatccc 300
gtggagtatg catgggagcc acatcgcaac tacgtgaact gctactgcca gggccccaag 360
gaagtactct tcctgggcat gaaccctgga ccttttggca tggcccagac tgggggtgcc 420
tttggggaag taagcatggc cggggaactg ttgggcattg tggggcctgt gctgaccctc 480
ccccaagagc atcctaaacg accagtgcgt ggactggagt gcccacagtc agaagtgagt 540
ggtgcccgat tctggggcct tttccggaac ctctgtggac agcctgaggt cttcttccat 600
cactgttttg tccacaatct atgcccctct cttttcctgg ctcccagcgg gcgcaacctt 660
actcctgctg agctgcctgc caagcagcga gaacagcttc ttgggatctg tgatgcagcc 720
ctctgcccggc aggtgcagct gctgggggtg cggctgggtg tgggagtggc gcgactggca 780
gagcagcggg cagcagcggc tctggcaggc ctgatgccag aggtccaggt ggaagggctc 840
ctgcatccct ctccccgtaa cccacaggcc aacaagggct gggaggcagt ggccaaggaa 900
agattgaatg agctggggct gctgccactg ctgttgaaat gagtgccctt ggggccttgc 960
atgggacaca ttcaagacct cgaagtcatt cttggccaag cagatgacaa cacatctcct 1020
ggactggagc aaaaggctct tctgtgcacc ctggctgctg ggaaacgtat tctttgatct 1080
gttgaactgt cttccaacct gccatggcag ttttgacact actcctgttt gccctcctga 1140
ttcctgcttt ctttaccttt taacattgcc ctttcaggg gacccactt tgtagggaat 1200
ctgcagaagg tgtgcttttg cacttgcaga ctgctctacc tcagtgtttc cttgggagac 1260
tttattcagc tgagagtgcc ctagacagta acttctaagg tcacgtttac tatttcagag 1320
gaaatatctt gccaggatac ctacccatcc ttatagaaca gttaccttta gctgaccctc 1380
ttcctcacag ggaccaagac aaagcatggg acatgaaatt aagagtgaac ttcttatggg 1440
aggctgcagc tggatcagag gaaaaatoca gtgtgacaga gtgcaagtca gaagacctgg 1500
cttttcatcc cagctttgaa acttgggaact ttttgattga caaattaata aacctctcta 1560
tgcctcaggc                                     1570

```

<210> 11204  
 <211> 270  
 <212> PRT  
 <213> Homo sapiens

<400> 11204

Met	Pro	Gln	Ala	Phe	Leu	Leu	Gly	Ser	Ile	His	Glu	Pro	Ala	Gly	Ala
1				5					10					15	
Leu	Met	Glu	Pro	Gln	Pro	Cys	Pro	Gly	Ser	Leu	Ala	Glu	Ser	Phe	Leu
			20					25					30		
Glu	Glu	Glu	Leu	Arg	Leu	Asn	Ala	Glu	Leu	Ser	Gln	Leu	Gln	Phe	Ser
			35				40					45			
Glu	Pro	Val	Gly	Ile	Ile	Tyr	Asn	Pro	Val	Glu	Tyr	Ala	Trp	Glu	Pro
		50				55				60					
His	Arg	Asn	Tyr	Val	Thr	Arg	Tyr	Cys	Gln	Gly	Pro	Lys	Glu	Val	Leu
		65			70					75				80	
Phe	Leu	Gly	Met	Asn	Pro	Gly	Pro	Phe	Gly	Met	Ala	Gln	Thr	Gly	Val
			85						90					95	
Pro	Phe	Gly	Glu	Val	Ser	Met	Val	Arg	Asp	Trp	Leu	Gly	Ile	Val	Gly
			100					105					110		
Pro	Val	Leu	Thr	Pro	Pro	Gln	Glu	His	Pro	Lys	Arg	Pro	Val	Leu	Gly

<210> 11205  
 <211> 1419  
 <212> DNA  
 <213> Homo sapiens

<400> 11205							
gataattacc	cagcctaacc	atttctcagg	tgcttgcgag	gtgatcagaa	ggcaaagatg	60	
tcggagcgaa	aagtattaaa	caaatactac	cgcgcggact	ttgaccatc	aaagatcccc	120	
aaactcaagc	tccccaaaga	ccggcagtac	gtggtgcggc	tgatggcccc	cttcaacatg	180	
aggtgtaaga	cgtgcggaga	atacatctac	aagggggaaga	aattcaatgc	tcggaaggag	240	
acggtgcaga	acgaggtcta	cctgggcctg	cccatcttcc	gcttttacct	caagtgcacg	300	
cgctgcctgg	cagagatcac	cttcaagaca	gaccctgaaa	acacagacta	caccatggag	360	
catggagccg	cgcggaattt	ccaggctgag	aagctcctgg	aggaggagga	gaagagggtg	420	
cagaaggagc	gggaggacga	ggagctgaac	aaccccatga	aggtgctgga	gaaccggacc	480	
aaggactcca	agctggagat	ggagggtgctg	gagaacctcc	aggagctgaa	agacctgaac	540	
cagcggcgagg	cgcacgtgga	cttcgaggct	atgctgaggc	agcaccgcct	gtcggaggag	600	
gagcggcgga	ggcagcagca	ggaggaggac	gagcaggaga	ccgcggccct	gttggaggaa	660	
gccagaaaagc	gaagactgct	ggaggactcc	gactcagagg	atgaggctgc	tccctcgccc	720	
ctgcagccag	cccttcggcc	caaccccacc	gccatcctgg	atgaggcccc	aaagcccaag	780	
aggaagggtg	aggtctggga	gcagagcggt	ggcagcctgg	gcagccggcc	cccgtgtcg	840	
aggctggtcg	tggtgaagaa	ggcaaaggcc	gacccggaact	gcagcaacgg	gcagcctcag	900	
gcggccccc	ccccaggagc	ccgcgagaac	aggaaggagg	ccaaccctac	accctgacg	960	
cctggcgcgt	cctccctgag	ccaactgggt	gcatacctgg	acagtgcga	cagcaacggc	1020	

```

agcaactgag cctccccagg accccctcac ggggtcaaag tcacacgtcc agcttcagcc 1080
acattgaggc cagcattgct ggtggtcagg gcaggaggcc ttggcgtgac tggaggcogg 1140
acagacaagc gccagcgtgc tccaacacat agggccacca ggggcctcag cccaggagg 1200
tcccttctct gtgccctcac cagcctctca acacctcggg gacctctgct gctcctgccc 1260
ccacctgtca ctgtgottag ggctgcaaca tccctggagc agcttccaac actacttcag 1320
ggtggcagtg tttggggcac tgggcgagcc tgccggcctc tagatggcct catctcttcc 1380
ttccacaaac tgtotagaac caataaaagg aaacctgcc 1419

```

<210> 11206  
 <211> 323  
 <212> PRT  
 <213> Homo sapiens

<400> 11206

Met	Ser	Glu	Arg	Lys	Val	Leu	Asn	Lys	Tyr	Tyr	Pro	Pro	Asp	Phe	Asp
1				5					10					15	
Pro	Ser	Lys	Ile	Pro	Lys	Leu	Lys	Leu	Pro	Lys	Asp	Arg	Gln	Tyr	Val
		20						25					30		
Val	Arg	Leu	Met	Ala	Pro	Phe	Asn	Met	Arg	Cys	Lys	Thr	Cys	Gly	Glu
		35					40					45			
Tyr	Ile	Tyr	Lys	Gly	Lys	Lys	Phe	Asn	Ala	Arg	Lys	Glu	Thr	Val	Gln
	50					55				60					
Asn	Glu	Val	Tyr	Leu	Gly	Leu	Pro	Ile	Phe	Arg	Phe	Tyr	Ile	Lys	Cys
	65				70					75				80	
Thr	Arg	Cys	Leu	Ala	Glu	Ile	Thr	Phe	Lys	Thr	Asp	Pro	Glu	Asn	Thr
			85						90					95	
Asp	Tyr	Thr	Met	Glu	His	Gly	Ala	Ala	Arg	Asn	Phe	Gln	Ala	Glu	Lys
			100					105					110		
Leu	Leu	Glu	Glu	Glu	Glu	Lys	Arg	Val	Gln	Lys	Glu	Arg	Glu	Asp	Glu
		115					120					125			
Glu	Leu	Asn	Asn	Pro	Met	Lys	Val	Leu	Glu	Asn	Arg	Thr	Lys	Asp	Ser
	130					135					140				
Lys	Leu	Glu	Met	Glu	Val	Leu	Glu	Asn	Leu	Gln	Glu	Leu	Lys	Asp	Leu
	145				150					155				160	
Asn	Gln	Arg	Gln	Ala	His	Val	Asp	Phe	Glu	Ala	Met	Leu	Arg	Gln	His
			165						170					175	
Arg	Leu	Ser	Glu	Glu	Glu	Arg	Arg	Arg	Gln	Gln	Gln	Glu	Glu	Asp	Glu
		180						185					190		
Gln	Glu	Thr	Ala	Ala	Leu	Leu	Glu	Glu	Ala	Arg	Lys	Arg	Arg	Leu	Leu
		195					200					205			
Glu	Asp	Ser	Asp	Ser	Glu	Asp	Glu	Ala	Ala	Pro	Ser	Pro	Leu	Gln	Pro
	210					215					220				
Ala	Leu	Arg	Pro	Asn	Pro	Thr	Ala	Ile	Leu	Asp	Glu	Ala	Pro	Lys	Pro
	225				230					235				240	
Lys	Arg	Lys	Val	Glu	Val	Trp	Glu	Gln	Ser	Val	Gly	Ser	Leu	Gly	Ser
			245						250					255	
Arg	Pro	Pro	Leu	Ser	Arg	Leu	Val	Val	Val	Lys	Lys	Ala	Lys	Ala	Asp

003220.69462960

<210> 11207  
 <211> 2634  
 <212> DNA  
 <213> Homo sapiens

<400> 11207

taatgaaaac	tttacaatgaa	tgcttatatta	ggttggttcaa	agtaaaaagg	gctacaggtc	60
acagatcgtc	agtgcctgag	aaagaacatt	gacttactct	atatcaattg	aggggaaagt	120
gcagtaccgt	catcttcaag	ccttgtaagc	ataaaagaga	ataggctgcc	catataagtc	180
aaaggaaaat	gagcccaggc	cttgctatga	agcagtgtgt	gaatggacaa	tgttgaatga	240
atgtctggct	cagtgatgga	gagccagggt	catctttgaa	atctagggct	cttcactcat	300
gaagcagact	cctattagaa	tgttactagg	ggcagaagca	gtgggattgg	taaaagagtg	360
caatgataac	accatgagag	ccttcacata	cagaaccaga	cagaacttca	aaggttttga	420
tgataacaat	gatgatttcc	tgacaatggc	agaatgtcaa	ttcattatca	aacatgaact	480
tgaaaatcct	agagctaaag	atgaaaaaat	gatccctggg	taccctcagg	caaagttgta	540
tccaggaaaa	tcattgttga	gaagattgct	caogtctggc	atcgtgattc	aggtgtttcc	600
actgcatgac	agtgaagccc	tgaagaagct	tgaggacacc	tggtacactc	ggtttgcttt	660
gaagtatcag	cccatagaca	gtattcgtgg	ctactttggg	gaaacaattg	ctctgtactt	720
tggatttttg	gagtatttca	cttttgcatt	aatccccatg	gotgtcattg	ggttacctta	780
ctacttgttt	gtgtgggaag	actatgacaa	gtacgtgata	tttgccctcgt	tcaacctcat	840
ctgggtccacg	gtgattctgg	aactgtggaa	gcgtggctgt	gccaacatga	cctacagggtg	900
ggggacactg	ctcatgaaga	gaaagtttga	ggagccccgg	ccaggatttc	atggtgtcctt	960
gggtatcaat	tccatcactg	ggaaggagga	gcctctgtac	cccagctaca	agagacagtt	1020
gcgcatttac	ctgggtctccc	tgccattcgt	gtgcctctgc	ctctatttct	cactgtatgt	1080
catgatgatt	tacttcgaca	tggaggtttg	ggccttgggt	ctacatgaga	acagcgggtc	1140
tgagtggacc	agtgtcctgt	tgtatgtgcc	cagcatcatc	tatgccattg	tgattgagat	1200
catgaatcgt	ctctatcgat	atgctgccga	gtttttaact	tcatggggaga	atcacagatt	1260
ggaatctgcc	tatcagaacc	atctaattct	gaaagtttta	gtgttcaact	tcctcaattg	1320
ctttgcctca	ctcttctata	ttgcctttgt	cttgaaagat	atgaagcttt	tgcgccagag	1380
cttggccact	ctcctaatta	cctcccagat	cctcaaccaa	attatggaat	cttttcttcc	1440
ttattggctc	caaaggaagc	atgggtgtgcg	ggtgaagagg	aaggtgcagg	ctttaaaggc	1500
agacattgat	gctacattat	atgaacaagt	catcctggaa	aaagaaatgg	gaacttattt	1560
gggcaccttt	gatgattact	tggagttatt	cctgcagttt	ggttatgtga	gccttttctc	1620

<210> 11208  
 <211> 589  
 <212> PRT  
 <213> Homo sapiens

Met	Lys	Gln	Thr	Pro	Ile	Arg	Met	Leu	Leu	Gly	Ala	Glu	Ala	Val	Gly
1				5					10					15	
Leu	Val	Lys	Glu	Cys	Asn	Asp	Asn	Thr	Met	Arg	Ala	Phe	Thr	Tyr	Arg
			20					25					30		
Thr	Arg	Gln	Asn	Phe	Lys	Gly	Phe	Asp	Asp	Asn	Asn	Asp	Phe	Leu	
		35				40				45					
Thr	Met	Ala	Glu	Cys	Gln	Phe	Ile	Ile	Lys	His	Glu	Leu	Glu	Asn	Leu
	50				55					60					
Arg	Ala	Lys	Asp	Glu	Lys	Met	Ile	Pro	Gly	Tyr	Pro	Gln	Ala	Lys	Leu
65					70				75					80	
Tyr	Pro	Gly	Lys	Ser	Leu	Leu	Arg	Arg	Leu	Leu	Thr	Ser	Gly	Ile	Val
				85				90						95	
Ile	Gln	Val	Phe	Pro	Leu	His	Asp	Ser	Glu	Ala	Leu	Lys	Lys	Leu	Glu
			100				105					110			
Asp	Thr	Trp	Tyr	Thr	Arg	Phe	Ala	Leu	Lys	Tyr	Gln	Pro	Ile	Asp	Ser
		115				120					125				
Ile	Arg	Gly	Tyr	Phe	Gly	Glu	Thr	Ile	Ala	Leu	Tyr	Phe	Gly	Phe	Leu
	130				135				140						
Glu	Tyr	Phe	Thr	Phe	Ala	Leu	Ile	Pro	Met	Ala	Val	Ile	Gly	Leu	Pro
145				150					155					160	
Tyr	Tyr	Leu	Phe	Val	Trp	Glu	Asp	Tyr	Asp	Lys	Tyr	Val	Ile	Phe	Ala
				165				170					175		
Ser	Phe	Asn	Leu	Ile	Trp	Ser	Thr	Val	Ile	Leu	Glu	Leu	Trp	Lys	Arg



-4664/13211-

565 570 575  
Lys Glu Glu Pro Met Glu Ser Gly Lys Glu Lys Ala Thr  
580 585

<210> 11209  
<211> 1737  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (112).. (1167)

<400> 11209  
ctgtcacgct tgttacttat tgccaaaact gggaagtiga aggaagccca agcatgtgtt 60  
gaagctaaca gagaccccat agtaaaaato ctgggctctg attataatac aatgaaagaa 120  
aactcaattg cattaaatat tcttggcaaa attaccagag atgatgatcc tgaaagtga 180  
attaagatga agattgctat gctgcttaag caattggatc tgcacctcct caatcattct 240  
ctaaaacata ttccattaga aataagttta agtcccatga cgggtgaagaa ggatatagaa 300  
ctgctcaaac gtttctcagg aaaaggaaac caaacagtct tggaatctat tgaatatacc 360  
tcagattatg aattttcaaa tggatgtcga gccccaccgt ggagacaaat tcgtggggaa 420  
atttgttatg tgctgggtgaa acctcacgat ggtgagactc tgtgcattac ttgcagtga 480  
ggaggagtat ttttaaatgg tggcaaaaca gatgatgaag gggacgttaa ttatgagaga 540  
aaaggttcaa tttataaaaa ccttgtcaca tttttaagag aaaaatcacc aaaattttca 600  
gaaaatatgt ctaaattggg aattagcttc agtgaagacc agcaaaagga aaaggatcag 660  
cttggcaaag cccccaagaa ggaagaagca gctgccctcc gcaaagacat ttctggttca 720  
gacaaaaggt cactggagag gaaccaaatt aatttttggg ggaatcaaat gaccaagaga 780  
tgggaaccaa gcttaactg gaagaccact gttaattaca aaggcaaagg ctcagcaaaa 840  
gaaatccaag aggacaaaca cacaggaaaa cttgaaaaac caagaccatc tgtttcacac 900  
ggaagagcac aattacttcg gaagagtgtc gaaaagattg aggaaaactgt tagcgatagc 960  
tcctcagaaa gtgaggaaga tgaagaacca cctgaccatc gtcaggaagc aagtgcagat 1020  
ttgccatcag aatattggca aattcagaag ctggtgaaat atttaaagca aaaggaaaca 1080  
agtcaaaatg gcagaaacaa aagatggatc aggaagcaga ataccagagt gattagaagc 1140  
atgatctttg acgttggaaa gaccagttga gttgaaatto tgccgcttac tcaatggcct 1200  
tgggtgatga tgctgtaccc taattctaaa ggaagcaatg aacccccctt tcagctacct 1260  
tactgataag cacttatgtt ctgccttctg ctatcctgat ggctcgggtt gtctgtctta 1320  
ctatctactt cttgagtaga gagaccacat taaatttatt gotgtatctc acagggcac 1380  
ttgctagtgt gcacaggctc gcctccctac ctctgccccg atgggtgtgaa ggggagaggg 1440  
cgaggttcct tagtggcagg gctttgctgt tcttcactct cagccccctg aaagcagttc 1500  
ttcctgcctc tgagcctgtc tttccttctg ctgttaactt ctttctact tttcttgc 1560  
ccctctccct tccttttctc gccgtcttct ttgtagacat actagttgat tgctgtattt 1620  
gotgacttta tatggatatt attttttctc ctggccaaaa ttgttttaaa atcttgcaag 1680  
gaaaatgtct tgcttttcat cacttcacgc gattaaagga gatgggttgt taatgtc 1737

<210> 11210  
<211> 352

09629469.072800

-4665/13211-

<212> PRT

<213> Homo sapiens

<400> 11210

Met	Lys	Glu	Asn	Ser	Ile	Ala	Leu	Asn	Ile	Leu	Gly	Lys	Ile	Thr	Arg
1				5					10					15	
Asp	Asp	Asp	Pro	Glu	Ser	Glu	Ile	Lys	Met	Lys	Ile	Ala	Met	Leu	Leu
			20					25					30		
Lys	Gln	Leu	Asp	Leu	His	Leu	Leu	Asn	His	Ser	Leu	Lys	His	Ile	Ser
		35					40					45			
Leu	Glu	Ile	Ser	Leu	Ser	Pro	Met	Thr	Val	Lys	Lys	Asp	Ile	Glu	Leu
	50					55					60				
Leu	Lys	Arg	Phe	Ser	Gly	Lys	Gly	Asn	Gln	Thr	Val	Leu	Glu	Ser	Ile
65					70				75						80
Glu	Tyr	Thr	Ser	Asp	Tyr	Glu	Phe	Ser	Asn	Gly	Cys	Arg	Ala	Pro	Pro
				85					90					95	
Trp	Arg	Gln	Ile	Arg	Gly	Glu	Ile	Cys	Tyr	Val	Leu	Val	Lys	Pro	His
			100					105					110		
Asp	Gly	Glu	Thr	Leu	Cys	Ile	Thr	Cys	Ser	Ala	Gly	Gly	Val	Phe	Leu
		115					120					125			
Asn	Gly	Gly	Lys	Thr	Asp	Asp	Glu	Gly	Asp	Val	Asn	Tyr	Glu	Arg	Lys
	130					135					140				
Gly	Ser	Ile	Tyr	Lys	Asn	Leu	Val	Thr	Phe	Leu	Arg	Glu	Lys	Ser	Pro
145					150					155					160
Lys	Phe	Ser	Glu	Asn	Met	Ser	Lys	Leu	Gly	Ile	Ser	Phe	Ser	Glu	Asp
				165					170					175	
Gln	Gln	Lys	Glu	Lys	Asp	Gln	Leu	Gly	Lys	Ala	Pro	Lys	Lys	Glu	Glu
			180					185					190		
Ala	Ala	Ala	Leu	Arg	Lys	Asp	Ile	Ser	Gly	Ser	Asp	Lys	Arg	Ser	Leu
		195					200					205			
Glu	Arg	Asn	Gln	Ile	Asn	Phe	Trp	Arg	Asn	Gln	Met	Thr	Lys	Arg	Trp
	210					215					220				
Glu	Pro	Ser	Leu	Asn	Trp	Lys	Thr	Thr	Val	Asn	Tyr	Lys	Gly	Lys	Gly
225					230					235					240
Ser	Ala	Lys	Glu	Ile	Gln	Glu	Asp	Lys	His	Thr	Gly	Lys	Leu	Glu	Lys
				245					250					255	
Pro	Arg	Pro	Ser	Val	Ser	His	Gly	Arg	Ala	Gln	Leu	Leu	Arg	Lys	Ser
			260					265					270		
Ala	Glu	Lys	Ile	Glu	Glu	Thr	Val	Ser	Asp	Ser	Ser	Ser	Glu	Ser	Glu
		275					280					285			
Glu	Asp	Glu	Glu	Pro	Pro	Asp	His	Arg	Gln	Glu	Ala	Ser	Ala	Asp	Leu
	290					295					300				
Pro	Ser	Glu	Tyr	Trp	Gln	Ile	Gln	Lys	Leu	Val	Lys	Tyr	Leu	Lys	Gln
305					310					315					320
Lys	Glu	Thr	Ser	Gln	Asn	Gly	Arg	Asn	Lys	Arg	Trp	Ile	Arg	Lys	Gln
				325					330					335	
Asn	Thr	Arg	Val	Ile	Arg	Ser	Met	Ile	Phe	Asp	Val	Gly	Lys	Thr	Ser
			340					345					350		

008220.69462960



<210> 11211  
<211> 2809  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (116).. (2392)

<400> 11211  
acttccggaa tctctcggcg tgtgagcttg gttgtcctac caaagccagc gtttcggctc 60  
gcgtgcgccg gcctagtttg ctgcgcgcct caagcgcttt gggtttcccg gtctcatggc 120  
cggcctgacc ttatttgttg gccgcctccc gccctoggcc cgcagtgagc agctggagga 180  
actgttcagt caggtggggc cgggtgaagca gtgcttcgtg gtgactgaaa aaggagtaa 240  
ggcatgtcga ggctttggct atgtcacttt ttcaatgctg gaagatgttc agagggccct 300  
caaggagatt accaccttg aaggttgcaa gatcaacgtg actgttgcca agaaaaact 360  
gaggaacaag acaaaggaaa aggggaaaaa tgaaaactca gagtgcccaa agaaggagcc 420  
gaaggctaaa aaagccaaag tggcagataa gaaagccaga ttaattattc ggaacctgag 480  
ctttaagtgt tcagaagatg acttgaagac agtatttgct caatttggag ctgtcctgga 540  
agtaaataatc cctaggaaac cagatgggaa gatgcgcggt tttggttttg ttcagttcaa 600  
aaacctccta gaagcaggta aagctctcaa aggcattgac atgaaagaga taaaaggccg 660  
gacagtggct gtggattggg ccgtggcaaa ggataaatat aaagatacac agtctgtttc 720  
tgctataggt gaggaaga gccatgaatc taaacatcag gaatcagtta aaaagaagg 780  
cagagaggaa gaggatatgg aagaggaaga aaacgatgat gatgacgat atgatgatga 840  
agaagatggg gtttttgatg atgaagatga agaggaagag aatatagaat caaaggtgac 900  
caagcctgtg caaattcaga agagagcagt caagagacca gccctgcaa aaagcagtga 960  
tcattctgag gaggacagt acctagagga aagcgatagt attgatgat gagaggaact 1020  
ggctcagagt gataccagca ctgaggagca agaggataaa gctgtgcaag tctcaaaca 1080  
aaagaagagg aaattacct ctgatgtgaa tgaagggaaa actgttttta tcagaaatct 1140  
gtcctttgac tcagaagaag aagaacttgg ggagcttctc caacagtttg gagaactcaa 1200  
atatgtccgc attgtcttgc atccagacac agagcattct aaaggttgtg catttgcca 1260  
gttcatgact caagaagcag ctcaaaaatg cttctagct gcttctccag agaatgaggc 1320  
tggtgggctt aaactggatg gccggcagct caaggttgac ttggcgggtg cccgtgatga 1380  
ggctgcaaaag cttcagacga cgaaggtgaa gaagccgact ggcaaccgga atctctatct 1440  
ggcccgagaa ggcttgattc gtgctgggac gaaggctgca gagggtgtga gtgctgctga 1500  
tatggccaaa agagaacggt ttgagctgct gaagcatcag aaactcaagg accagaatat 1560  
ctttgtctcc cgaaccaggc tctgcctgca caatctccca aaggctgtag atgacaaaca 1620  
gtcagaaaag ctgctgctga gtgctactag tggagagaaa ggggtgcgca tcaaggagt 1680  
tagagtgatg cgagacctca aaggagtcca tgggaacatg aagggtcagt cctgggcta 1740  
cgcttttgcg gattccaag agcacgagca tgccctgaaa gccctccgcc tcatcaaca 1800  
caatccagaa atctttgggc ctctgaagag accaatagtg gatttctct tagaagatcg 1860  
aagaaaaactt aaaaatgaagg aattaaggat ccagcgcagc ttgcaaaaaa tgagatccaa 1920  
gcctgcaact ggtgagcctc agaaggggca accagagcct gcaaaagacc agcaacagaa 1980  
ggcagctcaa caccacacag aggaacaaaag caaggtgccc ccagagcaga agagaaaggc 2040  
gggctctacc tcatggaccg ggttcagac caaggtgaa gtggagcagg tggagctgcc 2100  
tgatggaaaag aagagaagaa aggtcctggc gctccctca caccgaggcc ccaaatcag 2160

09629469.072300

```

gttgcgggac aaaggcaaag tgaagccogt ccatcccaaa aagccaaagc cacagataaa 2220
ccagtgggaag caggagaagc agcaattatc gtccgagcag gtatctagga aaaaagctaa 2280
gggaaataag acggaaaccc gottcaacca gctggtcgaa caatataagc ggaaattatt 2340
gggaccttct aaaggagcac ctcttgcaaa gaggagcaaa tggtttgata gttgatgatg 2400
gcagcaggct gggtaagaag ctgggttggt tactttctgg tgacactcct gggctcctcc 2460
ccatcccccg tgtctctcac tgagggaaag aaaatcccca agggcactgc cactgtgctc 2520
ggaggtgccc tggactgtgt acatctgaac ttgggtccat cctttgatgt gtggttcggt 2580
agccacaaag agaaatatct gaaagtcaac atgatgcttc ttgcataatta tccagattat 2640
tgtatgaagt tgtgtctata attattacca attttttatt ctttatttct caaatggaaa 2700
cacctgaaaa agcattctgg agtgctgaat ttttaagatg tatattttgt taagcatatt 2760
ctctaaaatga gatattgtgt ggcttttttag taacaacgtc atttctaatt 2809

```

<210> 11212  
 <211> 759  
 <212> PRT  
 <213> Homo sapiens

<400> 11212

Met	Ala	Gly	Leu	Thr	Leu	Phe	Val	Gly	Arg	Leu	Pro	Pro	Ser	Ala	Arg
1				5				10						15	
Ser	Glu	Gln	Leu	Glu	Glu	Leu	Phe	Ser	Gln	Val	Gly	Pro	Val	Lys	Gln
			20					25					30		
Cys	Phe	Val	Val	Thr	Glu	Lys	Gly	Ser	Lys	Ala	Cys	Arg	Gly	Phe	Gly
			35				40					45			
Tyr	Val	Thr	Phe	Ser	Met	Leu	Glu	Asp	Val	Gln	Arg	Ala	Leu	Lys	Glu
			50				55				60				
Ile	Thr	Thr	Phe	Glu	Gly	Cys	Lys	Ile	Asn	Val	Thr	Val	Ala	Lys	Lys
			65			70				75				80	
Lys	Leu	Arg	Asn	Lys	Thr	Lys	Glu	Lys	Gly	Lys	Asn	Glu	Asn	Ser	Glu
			85						90					95	
Cys	Pro	Lys	Lys	Glu	Pro	Lys	Ala	Lys	Lys	Ala	Lys	Val	Ala	Asp	Lys
			100					105					110		
Lys	Ala	Arg	Leu	Ile	Ile	Arg	Asn	Leu	Ser	Phe	Lys	Cys	Ser	Glu	Asp
			115				120						125		
Asp	Leu	Lys	Thr	Val	Phe	Ala	Gln	Phe	Gly	Ala	Val	Leu	Glu	Val	Asn
			130			135					140				
Ile	Pro	Arg	Lys	Pro	Asp	Gly	Lys	Met	Arg	Gly	Phe	Gly	Phe	Val	Gln
			145			150				155				160	
Phe	Lys	Asn	Leu	Leu	Glu	Ala	Gly	Lys	Ala	Leu	Lys	Gly	Met	Asn	Met
			165					170						175	
Lys	Glu	Ile	Lys	Gly	Arg	Thr	Val	Ala	Val	Asp	Trp	Ala	Val	Ala	Lys
			180					185					190		
Asp	Lys	Tyr	Lys	Asp	Thr	Gln	Ser	Val	Ser	Ala	Ile	Gly	Glu	Glu	Lys
			195				200					205			
Ser	His	Glu	Ser	Lys	His	Gln	Glu	Ser	Val	Lys	Lys	Lys	Gly	Arg	Glu
			210			215						220			
Glu	Glu	Asp	Met	Glu	Glu	Glu	Glu	Asn	Asp	Asp	Asp	Asp	Asp	Asp	Asp

008220.59452960

225 230 235 240  
Asp Glu Glu Asp Gly Val Phe Asp Asp Glu Asp Glu Glu Glu Glu Asn  
245 250 255  
Ile Glu Ser Lys Val Thr Lys Pro Val Gln Ile Gln Lys Arg Ala Val  
260 265 270  
Lys Arg Pro Ala Pro Ala Lys Ser Ser Asp His Ser Glu Glu Asp Ser  
275 280 285  
Asp Leu Glu Glu Ser Asp Ser Ile Asp Asp Gly Glu Glu Leu Ala Gln  
290 295 300  
Ser Asp Thr Ser Thr Glu Glu Gln Glu Asp Lys Ala Val Gln Val Ser  
305 310 315 320  
Asn Lys Lys Lys Arg Lys Leu Pro Ser Asp Val Asn Glu Gly Lys Thr  
325 330 335  
Val Phe Ile Arg Asn Leu Ser Phe Asp Ser Glu Glu Glu Glu Leu Gly  
340 345 350  
Glu Leu Leu Gln Gln Phe Gly Glu Leu Lys Tyr Val Arg Ile Val Leu  
355 360 365  
His Pro Asp Thr Glu His Ser Lys Gly Cys Ala Phe Ala Gln Phe Met  
370 375 380  
Thr Gln Glu Ala Ala Gln Lys Cys Leu Leu Ala Ala Ser Pro Glu Asn  
385 390 395 400  
Glu Ala Gly Gly Leu Lys Leu Asp Gly Arg Gln Leu Lys Val Asp Leu  
405 410 415  
Ala Val Thr Arg Asp Glu Ala Ala Lys Leu Gln Thr Thr Lys Val Lys  
420 425 430  
Lys Pro Thr Gly Thr Arg Asn Leu Tyr Leu Ala Arg Glu Gly Leu Ile  
435 440 445  
Arg Ala Gly Thr Lys Ala Ala Glu Gly Val Ser Ala Ala Asp Met Ala  
450 455 460  
Lys Arg Glu Arg Phe Glu Leu Leu Lys His Gln Lys Leu Lys Asp Gln  
465 470 475 480  
Asn Ile Phe Val Ser Arg Thr Arg Leu Cys Leu His Asn Leu Pro Lys  
485 490 495  
Ala Val Asp Asp Lys Gln Leu Arg Lys Leu Leu Leu Ser Ala Thr Ser  
500 505 510  
Gly Glu Lys Gly Val Arg Ile Lys Glu Cys Arg Val Met Arg Asp Leu  
515 520 525  
Lys Gly Val His Gly Asn Met Lys Gly Gln Ser Leu Gly Tyr Ala Phe  
530 535 540  
Ala Glu Phe Gln Glu His Glu His Ala Leu Lys Ala Leu Arg Leu Ile  
545 550 555 560  
Asn Asn Asn Pro Glu Ile Phe Gly Pro Leu Lys Arg Pro Ile Val Glu  
565 570 575  
Phe Ser Leu Glu Asp Arg Arg Lys Leu Lys Met Lys Glu Leu Arg Ile  
580 585 590  
Gln Arg Ser Leu Gln Lys Met Arg Ser Lys Pro Ala Thr Gly Glu Pro  
595 600 605  
Gln Lys Gly Gln Pro Glu Pro Ala Lys Asp Gln Gln Gln Lys Ala Ala

008220" 69462960

610		615		620
Gln His His Thr Glu Glu Gln Ser Lys Val Pro Pro Glu Gln Lys Arg				
625		630		635
Lys Ala Gly Ser Thr Ser Trp Thr Gly Phe Gln Thr Lys Ala Glu Val				
	645		650	655
Glu Gln Val Glu Leu Pro Asp Gly Lys Lys Arg Arg Lys Val Leu Ala				
	660		665	670
Leu Pro Ser His Arg Gly Pro Lys Ile Arg Leu Arg Asp Lys Gly Lys				
	675		680	685
Val Lys Pro Val His Pro Lys Lys Pro Lys Pro Gln Ile Asn Gln Trp				
	690		695	700
Lys Gln Glu Lys Gln Gln Leu Ser Ser Glu Gln Val Ser Arg Lys Lys				
705		710		715
Ala Lys Gly Asn Lys Thr Glu Thr Arg Phe Asn Gln Leu Val Glu Gln				
	725		730	735
Tyr Lys Arg Lys Leu Leu Gly Pro Ser Lys Gly Ala Pro Leu Ala Lys				
	740		745	750
Arg Ser Lys Trp Phe Asp Ser				
755				

<210> 11213  
 <211> 1716  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (88).. (1605)

<400> 11213

tgcaacactg	tggtgctgcc	ccagtggcac	tcctttotoca	ggacccacaa	cgtctgtgaa	60
ctctgtgtca	accagacctc	cggggggcatg	aagccgagct	cggtcagcgt	gccacagtgc	120
agcttttttg	aaatggcagc	agctctggat	tcctttctacc	tcaaggagca	gaccttttat	180
catgtggcat	cagacagcat	agaatgcagc	aatttttttaa	cttcctatag	ccccttcagc	240
tactacactg	catgttgcag	gaccataagc	aggggtgtgt	caggcttcat	cgactctgaa	300
caaggtgtct	ttgaagcccc	tactgttgca	ttttcttccc	ttgagaagaa	atgtgagggt	360
gatgccccaa	gctccgttcc	tcacattgag	gagaacaggt	atctctttcc	agaagtggac	420
atgactagca	caaacttcac	aggcctgagc	tgcagaacca	acaagactct	caacatctac	480
cttttgatt	caaatttggt	ttggttatat	gcagagagac	tgggtgctcc	gagctccact	540
caggtgaaag	aatttgcggc	aattgttgac	gtgaaagaag	aatctcatta	catcttggat	600
ccaaagcaag	cactgatgaa	gctcacccta	gagtctttta	ttcaaaaactt	cagcgtttctc	660
tatagtccct	tgaaaaggca	tctcattgga	agtggctctg	cccagttccc	gtctcagcat	720
ttaatcactg	aagtgacaac	tgataccttt	tgggaagtag	tccttcaaaa	acaggacgtt	780
ctcctgctct	attacgctcc	gtgggtgcggc	ttctgtccat	ccctcaatca	catcttcac	840
cagctagctc	ggaacctgcc	catggacaca	ttcactgtgg	caaggattga	cgtgtctcag	900
aatgaccttc	cttgggaatt	tatggtcgat	cgtctttccta	ctgtottgtt	ttttccctgc	960
aacagaaaag	acctaagtgt	gaaatacccc	gaagacgtcc	ccatcaccct	tccaaacctg	1020

```

ttgaggttca ttttgcata ctcagaccct gcttccagcc cccagaatgt ggctaactot 1080
cctaccaagg agtgtottca gagcgaggca gtcttacagc gggggcacat ctcccacttg 1140
gagagagaga tccagaaact gagagcagaa ataagcagcc tccagcgagc acaagtgcag 1200
gtggagtccc agctotccag tgcccgcaga gatgagcacc ggctgaggca gcagcagcgg 1260
gccctggaag agcagcacag cctgctccac gcacacagtg agcagctgca ggccctctat 1320
gagcagaaga cacgtgagct gcaggagctg gcccgcagc tgcaggagct ggccgatgcc 1380
tcagaaaacc tccttaccga gaacacgtgg ctcaagatcc tgggtggcgac catggagagg 1440
aaactggagg gcagggatgg agctgaaagc ctggcggccc agagagaggt ccacccaag 1500
cagcctgagc cctcagccac ccccagctc cctggcagct cccctccacc tgccaatgtc 1560
agcggcacac tgggtgtctga aaggaataag gagaacagga cagactaact ttttaaataga 1620
tatgaagaaa tcagagggtga aaattgtaca ttgggaatat atttatgcaa attttattga 1680
aatttattgt aaataaagat tttctcagtg gtctag 1716

```

<210> 11214  
 <211> 506  
 <212> PRT  
 <213> Homo sapiens

<400> 11214

Met	Lys	Pro	Ser	Ser	Val	Ser	Val	Pro	Gln	Cys	Ser	Phe	Phe	Glu	Met
1				5				10						15	
Ala	Ala	Ala	Leu	Asp	Ser	Phe	Tyr	Leu	Lys	Glu	Gln	Thr	Phe	Tyr	His
			20					25					30		
Val	Ala	Ser	Asp	Ser	Ile	Glu	Cys	Ser	Asn	Phe	Leu	Thr	Ser	Tyr	Ser
		35					40					45			
Pro	Phe	Ser	Tyr	Tyr	Thr	Ala	Cys	Cys	Arg	Thr	Ile	Ser	Arg	Gly	Val
	50					55					60				
Ser	Gly	Phe	Ile	Asp	Ser	Glu	Gln	Gly	Val	Phe	Glu	Ala	Pro	Thr	Val
65					70					75				80	
Ala	Phe	Ser	Ser	Leu	Glu	Lys	Lys	Cys	Glu	Val	Asp	Ala	Pro	Ser	Ser
				85					90					95	
Val	Pro	His	Ile	Glu	Glu	Asn	Arg	Tyr	Leu	Phe	Pro	Glu	Val	Asp	Met
			100					105					110		
Thr	Ser	Thr	Asn	Phe	Thr	Gly	Leu	Ser	Cys	Arg	Thr	Asn	Lys	Thr	Leu
		115				120						125			
Asn	Ile	Tyr	Leu	Leu	Asp	Ser	Asn	Leu	Phe	Trp	Leu	Tyr	Ala	Glu	Arg
130					135						140				
Leu	Gly	Ala	Pro	Ser	Ser	Thr	Gln	Val	Lys	Glu	Phe	Ala	Ala	Ile	Val
145				150						155				160	
Asp	Val	Lys	Glu	Glu	Ser	His	Tyr	Ile	Leu	Asp	Pro	Lys	Gln	Ala	Leu
			165					170					175		
Met	Lys	Leu	Thr	Leu	Glu	Ser	Phe	Ile	Gln	Asn	Phe	Ser	Val	Leu	Tyr
		180					185						190		
Ser	Pro	Leu	Lys	Arg	His	Leu	Ile	Gly	Ser	Gly	Ser	Ala	Gln	Phe	Pro
	195					200						205			
Ser	Gln	His	Leu	Ile	Thr	Glu	Val	Thr	Thr	Asp	Thr	Phe	Trp	Glu	Val
210					215						220				

003220" 59462960

-4671/13211-

```

Val Leu Gln Lys Gln Asp Val Leu Leu Leu Tyr Tyr Ala Pro Trp Cys
225                230                235                240
Gly Phe Cys Pro Ser Leu Asn His Ile Phe Ile Gln Leu Ala Arg Asn
                245                250                255
Leu Pro Met Asp Thr Phe Thr Val Ala Arg Ile Asp Val Ser Gln Asn
                260                265                270
Asp Leu Pro Trp Glu Phe Met Val Asp Arg Leu Pro Thr Val Leu Phe
                275                280                285
Phe Pro Cys Asn Arg Lys Asp Leu Ser Val Lys Tyr Pro Glu Asp Val
                290                295                300
Pro Ile Thr Leu Pro Asn Leu Leu Arg Phe Ile Leu His His Ser Asp
305                310                315                320
Pro Ala Ser Ser Pro Gln Asn Val Ala Asn Ser Pro Thr Lys Glu Cys
                325                330                335
Leu Gln Ser Glu Ala Val Leu Gln Arg Gly His Ile Ser His Leu Glu
                340                345                350
Arg Glu Ile Gln Lys Leu Arg Ala Glu Ile Ser Ser Leu Gln Arg Ala
                355                360                365
Gln Val Gln Val Glu Ser Gln Leu Ser Ser Ala Arg Arg Asp Glu His
                370                375                380
Arg Leu Arg Gln Gln Gln Arg Ala Leu Glu Glu Gln His Ser Leu Leu
385                390                395                400
His Ala His Ser Glu Gln Leu Gln Ala Leu Tyr Glu Gln Lys Thr Arg
                405                410                415
Glu Leu Gln Glu Leu Ala Arg Lys Leu Gln Glu Leu Ala Asp Ala Ser
                420                425                430
Glu Asn Leu Leu Thr Glu Asn Thr Trp Leu Lys Ile Leu Val Ala Thr
                435                440                445
Met Glu Arg Lys Leu Glu Gly Arg Asp Gly Ala Glu Ser Leu Ala Ala
                450                455                460
Gln Arg Glu Val His Pro Lys Gln Pro Glu Pro Ser Ala Thr Pro Gln
465                470                475                480
Leu Pro Gly Ser Ser Pro Pro Pro Ala Asn Val Ser Ala Thr Leu Val
                485                490                495
Ser Glu Arg Asn Lys Glu Asn Arg Thr Asp
                500                505

```

<210> 11215  
 <211> 1966  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (158).. (1804)

<400> 11215

003220.69462950

008220.69462960

```

aagattgcat gggaactgga tcagactgta cttggaggaa aagcattcag aagtcctatt 60
caacctgggc tccaaggttc tcaggcagta cctggatgct ctgaagacgc tgagcttgtc 120
cctgagtgca caagtggccc agtacgacat ctattcgatg atgggtgggga ctgtcgtggt 180
tttggagggt ctcacctgco tcctgctcag cgtcccacag gcaactgcgca gaaaggctga 240
gctggaagtc ccactgtcat ctccctgggt ttctctgctc ttttatttgg tgatcctggt 300
tctttcggcc gttcacgtca ttgtgtgcac ctacagctgaa agttcgtgct acttctgtgg 360
cctctcgtgg ctggcggcag gtggggtgat ggtgctggcc tcggcgtgc tgtgtgtgat 420
tgtgtctgtt ctgaccaacg tgctcgtggg tggaaacacc ccaaggaaga accccatgca 480
tcccagctca aggtggtcag agctagacct tcttattctg ttggggacgg cgggccacgt 540
cttgagcctg ggccgcagca gcttcgtgga ggaggagcac cagacctggt acttccctgt 600
gaacaccctg tgtctagctc tgagccaaga aacctacaga aactactttc tgggagatga 660
cggtagacct ccgtgtggcc tctgtgtgga acaagggcat gacggggcca cagcagcgtg 720
gcaggacggg cctggctgtg atatcctgga gcgagacaaa ggccacggaa gcccctctac 780
ctccgaagtg ctacagaggc gcgagaagtg gatggtgctg gccagtccgt ggctaatact 840
ggcctgctgc cggctgctgc gctccctaaa ccagacaggt gtgcagtggg ctcaccggcc 900
tgacctcggc cactggctca ccagctctga ccacaaagcc gagctctctg tcttggtctg 960
cctctccctc ctgtagttt ttgtgctggt gcagaggggg tgctcccctg tgtccaaggc 1020
tgccctggcg ctggggctgc tgggcgtcta ctgctaccgg gcggccatcg ggagtgtccg 1080
gttcccgtgg cggccggaca gcaaggacat ttccaagggt attattgaag ctcgttttgt 1140
ttatgtcttt gtccttgga ttctgttcac gggcaccaaa gacttactta aatctcaagt 1200
cattgctgca gacttcaaac tcaagactgt aggtttatgg gagatatata gtggattagt 1260
tcttctggca gccttgctct ttagaccaca taatcttccg gtcttagcat ttagcctctt 1320
gattcagact ctaatgacta aattcatctg gaagcccctg agacacgatg cagctgagat 1380
tactgtgatg cattattggt ttggtcaagc attcttctat tttcagggca actccaacaa 1440
cattgccacc gtggacatct ccgcaggctt cgtgggctta gacacctacg tggaaatccc 1500
agccgtgctc ctgacagcgt ttgggacgta cgcagggcct gtgctgtggg ccagccactt 1560
agtgcacttc ctgagctcag aaacacgcag tggttcagca ctgagtcatg cttgcttctg 1620
ctacgcactg atttgttcta ttccagtttt cacgtacatc gttttggtga catctctgcg 1680
ttatcattta tttatatgga gtgtattttc tccaaaactt ctctacgagg gaatgcacct 1740
gctcattaca gctgctgtct gtgtattctt cacggcaatg gatcaaacca gactcacaca 1800
gtcttagact aagctgaaca ctggaaaaat aatacatgct taaagtctgc tgttattcta 1860
aaatgaaaga tatgaattca acaaagtiga tggataactt tctttgactg ctctacctga 1920
atttagacta agcagtaaat agtttaataa aagatcactt taatat 1966

```

<210> 11216

<211> 549

<212> PRT

<213> Homo sapiens

<400> 11216

```

Met Met Val Gly Thr Val Val Val Leu Glu Val Leu Thr Leu Leu Leu
 1             5             10             15
Leu Ser Val Pro Gln Ala Leu Arg Arg Lys Ala Glu Leu Glu Val Pro
          20             25             30
Leu Ser Ser Pro Gly Phe Ser Leu Leu Phe Tyr Leu Val Ile Leu Val
          35             40             45
Leu Ser Ala Val His Val Ile Val Cys Thr Ser Ala Glu Ser Ser Cys

```

50	55	60
Tyr Phe Cys Gly Leu Ser Trp Leu Ala Ala Gly Gly Val Met Val Leu		
65	70	75
Ala Ser Ala Leu Leu Cys Val Ile Val Ser Val Leu Thr Asn Val Leu		80
	85	90
Val Gly Gly Asn Thr Pro Arg Lys Asn Pro Met His Pro Ser Ser Arg		95
	100	105
Trp Ser Glu Leu Asp Leu Leu Ile Leu Leu Gly Thr Ala Gly His Val		110
	115	120
Leu Ser Leu Gly Ala Ser Ser Phe Val Glu Glu Glu His Gln Thr Trp		125
	130	135
Tyr Phe Leu Val Asn Thr Leu Cys Leu Ala Leu Ser Gln Glu Thr Tyr		140
145	150	155
Arg Asn Tyr Phe Leu Gly Asp Asp Gly Glu Pro Pro Cys Gly Leu Cys		160
	165	170
Val Glu Gln Gly His Asp Gly Ala Thr Ala Ala Trp Gln Asp Gly Pro		175
	180	185
Gly Cys Asp Ile Leu Glu Arg Asp Lys Gly His Gly Ser Pro Ser Thr		190
	195	200
Ser Glu Val Leu Arg Gly Arg Glu Lys Trp Met Val Leu Ala Ser Pro		205
	210	215
Trp Leu Ile Leu Ala Cys Cys Arg Leu Leu Arg Ser Leu Asn Gln Thr		220
225	230	235
Gly Val Gln Trp Ala His Arg Pro Asp Leu Gly His Trp Leu Thr Ser		240
	245	250
Ser Asp His Lys Ala Glu Leu Ser Val Leu Ala Ala Leu Ser Leu Leu		255
	260	265
Val Val Phe Val Leu Val Gln Arg Gly Cys Ser Pro Val Ser Lys Ala		270
	275	280
Ala Leu Ala Leu Gly Leu Leu Gly Val Tyr Cys Tyr Arg Ala Ala Ile		285
	290	295
Gly Ser Val Arg Phe Pro Trp Arg Pro Asp Ser Lys Asp Ile Ser Lys		300
305	310	315
Gly Ile Ile Glu Ala Arg Phe Val Tyr Val Phe Val Leu Gly Ile Leu		320
	325	330
Phe Thr Gly Thr Lys Asp Leu Leu Lys Ser Gln Val Ile Ala Ala Asp		335
	340	345
Phe Lys Leu Lys Thr Val Gly Leu Trp Glu Ile Tyr Ser Gly Leu Val		350
	355	360
Leu Leu Ala Ala Leu Leu Phe Arg Pro His Asn Leu Pro Val Leu Ala		365
	370	375
Phe Ser Leu Leu Ile Gln Thr Leu Met Thr Lys Phe Ile Trp Lys Pro		380
385	390	395
Leu Arg His Asp Ala Ala Glu Ile Thr Val Met His Tyr Trp Phe Gly		400
	405	410
Gln Ala Phe Phe Tyr Phe Gln Gly Asn Ser Asn Asn Ile Ala Thr Val		415
	420	425
Asp Ile Ser Ala Gly Phe Val Gly Leu Asp Thr Tyr Val Glu Ile Pro		430

009229469.072800



435 440 445  
Ala Val Leu Leu Thr Ala Phe Gly Thr Tyr Ala Gly Pro Val Leu Trp  
450 455 460  
Ala Ser His Leu Val His Phe Leu Ser Ser Glu Thr Arg Ser Gly Ser  
465 470 475 480  
Ala Leu Ser His Ala Cys Phe Cys Tyr Ala Leu Ile Cys Ser Ile Pro  
485 490 495  
Val Phe Thr Tyr Ile Val Leu Val Thr Ser Leu Arg Tyr His Leu Phe  
500 505 510  
Ile Trp Ser Val Phe Ser Pro Lys Leu Leu Tyr Glu Gly Met His Leu  
515 520 525  
Leu Ile Thr Ala Ala Val Cys Val Phe Phe Thr Ala Met Asp Gln Thr  
530 535 540  
Arg Leu Thr Gln Ser  
545

<210> 11217  
<211> 1624  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (519).. (1502)

<400> 11217  
atgaccttct acagtgaggt gaaacaaata gagaagagaa ggttgaaaag agaagtaaca 60  
gtgacagcaa agaaaaccgg gaaacaaaat taaatgggcc tgggtgaaaac gtcagtgagg 120  
atgaggctca gtcaagtaat caacgtaaga gagctaataa gcacaagtgg gtaccactcc 180  
acttagatgt tgtaagatca gagagtcaag aaagacctgg atcccggaac agctcaagat 240  
gtcaacctga agcaaataaa ccaacacata acaataggag aaatgataca cgaagttgga 300  
agcgagatag agaaaaaaga gatgatcaag atgacgtttc cagtgtgaga agtgagggtg 360  
gtaatatccg aggttccttt agaggtcgag gaagaggccg aggacgggga agaggacgag 420  
gcagaggaaa tcctcgatcg aactttgatt attcatatgg ttatcaagaa catggtgaaa 480  
ggactgatca accatttcaa acagaactta ataccagtat gatgtattac tatgatgatg 540  
gtacaggtgt acaggtgtat cctgtggaag aagcgttgct taaagagtat attaagcgtc 600  
aaattgaata ttacttcagt gtagaaaatt tggaacgaga ctcttttctt cggggaaaga 660  
tggtatgaaca aggtttcttg cctatttccc tgattgctgg ttttcagcgt gttcaggctc 720  
tcactacaaa ccttaatctc atcttagagg cactgaagga tagcacagaa gtagaaattg 780  
tggtatgagaa aatgagaaaa gagatagaac cagaaaaatg gccaatcca ggccctcctc 840  
cacgcagtgt gccaccaaca gacttctctc aactgattga ttgtccagag tttgtaccag 900  
gccaaagcctt ttgtcacat acagagtctg ccccaaattc tccaagaatt ggaagcccat 960  
tgagcccaaa gaaaaacagt gaaacaagta ttcttcaagc aatgtctaga ggtttgtcta 1020  
ccagtttgcc tgacttgac tcagaacctt ggatagaagt taaaaaaaga catcagccag 1080  
cccagtgaa attgaggga tcagtgtctg tccctgaagg gtcattaaat cagctatgtt 1140  
cttcagaaga accagaacaa gaagaacttg attttttgtt tgatgaagag attgaacaaa 1200  
taggacgaaa aaacacattt actgattggt ctgataatga ttcagattat gaaattgatg 1260

09629469.072800

accaagactt aaacaagatt ttgattgtaa ctcagacacc accttatgtg aaaaaacatc 1320  
 gtggaggaga tcgaacaggo acccacatgt ctcgggcaaaa aatcacatct gaacttgcta 1380  
 aagttatcaa tgatggctta tattattatg aacaggatct atggatggaa gaagatgaaa 1440  
 acaaacacac agccataaag gtaattgttt ctggccaaca tctttctact gatgctttgt 1500  
 tttgattgta tgttgctgtt tatattttct caaacttgag gctctatctt atgaaatgtt 1560  
 gaatataaat acattgtatt taacttgaaa aattcctgga aatatacctg ataattacca 1620  
 cctg 1624

<210> 11218  
 <211> 328  
 <212> PRT  
 <213> Homo sapiens

<400> 11218  
 Met Met Tyr Tyr Tyr Asp Asp Gly Thr Gly Val Gln Val Tyr Pro Val  
 1 5 10 15  
 Glu Glu Ala Leu Leu Lys Glu Tyr Ile Lys Arg Gln Ile Glu Tyr Tyr  
 20 25 30  
 Phe Ser Val Glu Asn Leu Glu Arg Asp Phe Phe Leu Arg Gly Lys Met  
 35 40 45  
 Asp Glu Gln Gly Phe Leu Pro Ile Ser Leu Ile Ala Gly Phe Gln Arg  
 50 55 60  
 Val Gln Ala Leu Thr Thr Asn Leu Asn Leu Ile Leu Glu Ala Leu Lys  
 65 70 75 80  
 Asp Ser Thr Glu Val Glu Ile Val Asp Glu Lys Met Arg Lys Glu Ile  
 85 90 95  
 Glu Pro Glu Lys Trp Pro Ile Pro Gly Pro Pro Pro Arg Ser Val Pro  
 100 105 110  
 Pro Thr Asp Phe Ser Gln Leu Ile Asp Cys Pro Glu Phe Val Pro Gly  
 115 120 125  
 Gln Ala Phe Cys Ser His Thr Glu Ser Ala Pro Asn Ser Pro Arg Ile  
 130 135 140  
 Gly Ser Pro Leu Ser Pro Lys Lys Asn Ser Glu Thr Ser Ile Leu Gln  
 145 150 155 160  
 Ala Met Ser Arg Gly Leu Ser Thr Ser Leu Pro Asp Leu Asp Ser Glu  
 165 170 175  
 Pro Trp Ile Glu Val Lys Lys Arg His Gln Pro Ala Pro Val Lys Leu  
 180 185 190  
 Arg Glu Ser Val Ser Val Pro Glu Gly Ser Leu Asn Gln Leu Cys Ser  
 195 200 205  
 Ser Glu Glu Pro Glu Gln Glu Leu Asp Phe Leu Phe Asp Glu Glu  
 210 215 220  
 Ile Glu Gln Ile Gly Arg Lys Asn Thr Phe Thr Asp Trp Ser Asp Asn  
 225 230 235 240  
 Asp Ser Asp Tyr Glu Ile Asp Asp Gln Asp Leu Asn Lys Ile Leu Ile  
 245 250 255  
 Val Thr Gln Thr Pro Pro Tyr Val Lys Lys His Arg Gly Gly Asp Arg

003220.69462960

-4676/13211-

		260						265					270				
Thr	Gly	Thr	His	Met	Ser	Arg	Ala	Lys	Ile	Thr	Ser	Glu	Leu	Ala	Lys		
		275					280					285					
Val	Ile	Asn	Asp	Gly	Leu	Tyr	Tyr	Tyr	Glu	Gln	Asp	Leu	Trp	Met	Glu		
		290				295					300						
Glu	Asp	Glu	Asn	Lys	His	Thr	Ala	Ile	Lys	Val	Ile	Val	Ser	Gly	Gln		
305					310					315					320		
His	Leu	Ser	Thr	Asp	Ala	Leu	Phe										
				325													

<210> 11219  
<211> 2500  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (99).. (1958)

<400> 11219  
caggggagct cagtctgcta tcgtacatta ggcctgacgt taaagggctt tcaacgcttc 60  
aggatattga aataggagtg cagcatattt tagcagatat gattgctaaa gacaaagaca 120  
cgcttgactt cattcggaac ttgtgccaga agagacatgt ttgtatccag tcatctctgg 180  
caaaagtatc ctcaaaaaag gtaaatgaga aagatgttga taagtttctg ctctaccagc 240  
atttttcctg caacataaga aacattcacc atcatcagat tctggcaatt aaccgtggag 300  
aaaatttgaa ggtactgacg gttaagggtca atatttctga tggagtgaag gatgaattct 360  
gtagggtgtg catccaaaac aggtggagac cagctagctt tgcaaggcca gagttaatga 420  
agatcttata taattcactg aatgattcct ttaaagcctt tatttatcct ctctctgtga 480  
gagaattcag agccaaacta acatcagatg cagagaagga atcagtaatg atgtttggac 540  
ggaaccttcg tcagctcctt ttaacaagcc ctgttccagg gcgcacctta atgggagtg 600  
atcctgggta taaacatggt tgcaaatag ctataatttc tcctactagt cagatacttc 660  
atactgatgt gttttacttg cattgtggac aaggcttccg agaggcggag aaaataaaga 720  
cacttttgct gaatttcaac tgcagcacag tagtgattgg aagtggaact gcctgcaggg 780  
aaacagaagc ttactttgct gacctgataa tgaagaatta ttttgacca ctggatgttg 840  
tttactgtat cgtcagtga gaggagcat caatctacag tgtcagccct gaagctaaca 900  
aagagatgcc agggctggac cctaatttga gaagtgcagt ttccatagca aggcgtgtac 960  
aagatccatt agctgagcta gtgaaaattg agccaaagca cattggagtt ggaatgtatc 1020  
agcatgacgt atcccagact ttactcaagg caacactgga cagtgttgta gaagaatgtg 1080  
tcagctttgt gggagtggat attaacatct gttcagaagt tttgttaagg catattgcag 1140  
gactcaatgc caacagggcc aaaaatatta ttgaatggcg agagaaaaat ggacccttta 1200  
tcaaccgaga acagctgaag aaagtgaag ggctgggccc aaaatccttc caacagtgtg 1260  
ctggcttcat cagaatcaac caggattata tccgaacgtt ttgcagtcag caaactgaaa 1320  
cttcaggcca aattcaagga gttgctgtga catctccagc agacgttgag gtcacaaatg 1380  
agaagcaggg caaaaagaag agcaaaactg cagtgaatgt tttactgaag ccaaatcctt 1440  
tggaccaaac ttgtattcat ccagaatcat atgacatagc aatgagggtt ttgtcatcca 1500  
ttggagggac actgtatgag gttggaaagc ctgaaatgca acaaaaaata aattcattcc 1560  
ttgaaaagga aggaatggag aaaattgcag aaagattgca aacaacagta cacaccttac 1620

09629469.072800

```

aggtcatcat agatgggtctc agccagcctg aaagctttga ctttcgaaca gattttgata 1680
aacctgattt caagagaagc atagtatgcc tggaagatct gcagattggg acagttctta 1740
caggcaaagt tgagaatgcc actctctttg gaatttttgt ggatatagga gtgggggaaat 1800
ctgggctgat tcccatacga aatgtaacag aagcaaaact ttcaaaaaca aagaagagaa 1860
gaagccttgg actgggcccc ggagaaagag tggaagtcca agtactcaac attgacatcc 1920
cccgatctag gattactctg gacctcattc ggggtgttatg agtatccac gaaggccaga 1980
cgctgatttt attttctcat ttccacagat tgacaaggat aagtcagttg tttgtaaaact 2040
ctaggtagca gatgagaaat aattcactta atatcagaaa tattttccaa acactttcct 2100
ttattttttc ttctgaataa atagaaaacc aacagtttga tttccttttc ccttaaagga 2160
aacaactaat acacattctt atatggcctt atgtagtaat agttttctga ctaaaatttt 2220
gttttttatt ttttgtaatt tatctttaac tccttttgca ttttgtataa cagattgctt 2280
aacttctact tgccaacatc tgccttgctg gacttgatg ggattgtctt cttgatttga 2340
attgtaccgt ctttggtgac acagtagggc tgggcagttg ttaatccttc cattttatag 2400
attttttttt aatcaggcct tttggacttc attcataatt ttgcaataat ctcttttccc 2460
ttgtcatgca agccaaaaat ataccagtaa aacagaaaac 2500

```

<210> 11220  
 <211> 620  
 <212> PRT  
 <213> Homo sapiens

<400> 11220

Met	Ile	Ala	Lys	Asp	Lys	Asp	Thr	Leu	Asp	Phe	Ile	Arg	Asn	Leu	Cys
1				5					10					15	
Gln	Lys	Arg	His	Val	Cys	Ile	Gln	Ser	Ser	Leu	Ala	Lys	Val	Ser	Ser
			20					25					30		
Lys	Lys	Val	Asn	Glu	Lys	Asp	Val	Asp	Lys	Phe	Leu	Leu	Tyr	Gln	His
		35					40					45			
Phe	Ser	Cys	Asn	Ile	Arg	Asn	Ile	His	His	His	Gln	Ile	Leu	Ala	Ile
	50					55					60				
Asn	Arg	Gly	Glu	Asn	Leu	Lys	Val	Leu	Thr	Val	Lys	Val	Asn	Ile	Ser
	65				70					75					80
Asp	Gly	Val	Lys	Asp	Glu	Phe	Cys	Arg	Trp	Cys	Ile	Gln	Asn	Arg	Trp
			85					90					95		
Arg	Pro	Arg	Ser	Phe	Ala	Arg	Pro	Glu	Leu	Met	Lys	Ile	Leu	Tyr	Asn
			100					105					110		
Ser	Leu	Asn	Asp	Ser	Phe	Lys	Arg	Leu	Ile	Tyr	Pro	Leu	Leu	Cys	Arg
		115					120					125			
Glu	Phe	Arg	Ala	Lys	Leu	Thr	Ser	Asp	Ala	Glu	Lys	Glu	Ser	Val	Met
	130					135					140				
Met	Phe	Gly	Arg	Asn	Leu	Arg	Gln	Leu	Leu	Leu	Thr	Ser	Pro	Val	Pro
	145				150					155					160
Gly	Arg	Thr	Leu	Met	Gly	Val	Asp	Pro	Gly	Tyr	Lys	His	Gly	Cys	Lys
			165				170						175		
Leu	Ala	Ile	Ile	Ser	Pro	Thr	Ser	Gln	Ile	Leu	His	Thr	Asp	Val	Val
		180					185					190			
Tyr	Leu	His	Cys	Gly	Gln	Gly	Phe	Arg	Glu	Ala	Glu	Lys	Ile	Lys	Thr

003240.69462960

195	200	205
Leu Leu Leu Asn Phe Asn Cys Ser Thr Val Val Ile Gly Ser Gly Thr		
210	215	220
Ala Cys Arg Glu Thr Glu Ala Tyr Phe Ala Asp Leu Ile Met Lys Asn		
225	230	235
Tyr Phe Ala Pro Leu Asp Val Val Tyr Cys Ile Val Ser Glu Ala Gly		
245	250	255
Ala Ser Ile Tyr Ser Val Ser Pro Glu Ala Asn Lys Glu Met Pro Gly		
260	265	270
Leu Asp Pro Asn Leu Arg Ser Ala Val Ser Ile Ala Arg Arg Val Gln		
275	280	285
Asp Pro Leu Ala Glu Leu Val Lys Ile Glu Pro Lys His Ile Gly Val		
290	295	300
Gly Met Tyr Gln His Asp Val Ser Gln Thr Leu Leu Lys Ala Thr Leu		
305	310	315
Asp Ser Val Val Glu Glu Cys Val Ser Phe Val Gly Val Asp Ile Asn		
325	330	335
Ile Cys Ser Glu Val Leu Leu Arg His Ile Ala Gly Leu Asn Ala Asn		
340	345	350
Arg Ala Lys Asn Ile Ile Glu Trp Arg Glu Lys Asn Gly Pro Phe Ile		
355	360	365
Asn Arg Glu Gln Leu Lys Lys Val Lys Gly Leu Gly Pro Lys Ser Phe		
370	375	380
Gln Gln Cys Ala Gly Phe Ile Arg Ile Asn Gln Asp Tyr Ile Arg Thr		
385	390	395
Phe Cys Ser Gln Gln Thr Glu Thr Ser Gly Gln Ile Gln Gly Val Ala		
405	410	415
Val Thr Ser Pro Ala Asp Val Glu Val Thr Asn Glu Lys Gln Gly Lys		
420	425	430
Lys Lys Ser Lys Thr Ala Val Asn Val Leu Leu Lys Pro Asn Pro Leu		
435	440	445
Asp Gln Thr Cys Ile His Pro Glu Ser Tyr Asp Ile Ala Met Arg Phe		
450	455	460
Leu Ser Ser Ile Gly Gly Thr Leu Tyr Glu Val Gly Lys Pro Glu Met		
465	470	475
Gln Gln Lys Ile Asn Ser Phe Leu Glu Lys Glu Gly Met Glu Lys Ile		
485	490	495
Ala Glu Arg Leu Gln Thr Thr Val His Thr Leu Gln Val Ile Ile Asp		
500	505	510
Gly Leu Ser Gln Pro Glu Ser Phe Asp Phe Arg Thr Asp Phe Asp Lys		
515	520	525
Pro Asp Phe Lys Arg Ser Ile Val Cys Leu Glu Asp Leu Gln Ile Gly		
530	535	540
Thr Val Leu Thr Gly Lys Val Glu Asn Ala Thr Leu Phe Gly Ile Phe		
545	550	555
Val Asp Ile Gly Val Gly Lys Ser Gly Leu Ile Pro Ile Arg Asn Val		
565	570	575
Thr Glu Ala Lys Leu Ser Lys Thr Lys Lys Arg Arg Ser Leu Gly Leu		

002220 69462960

-4679/13211-

			580						585					590			
Gly	Pro	Gly	Glu	Arg	Val	Glu	Val	Gln	Val	Leu	Asn	Ile	Asp	Ile	Pro		
		595					600					605					
Arg	Ser	Arg	Ile	Thr	Leu	Asp	Leu	Ile	Arg	Val	Leu						
	610					615					620						

<210> 11221  
<211> 1966  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (28).. (1098)

<400> 11221  
aaaaaaaaag gtaacttcag tgcgtttatg cagaaggaga tcttcgaaca gccagaatca 60  
gttttcaata ctatgagagg tcgggtgaat ttgaaacca acacagtgc cctgggtggc 120  
ttgaaggacc acttgaagga gattcgacga tgccgacggc tcatcgtgat tggctgtgga 180  
accagctacc acgctgccgt ggctacgcgg caagtttttg aggaactgac tgagcttcct 240  
gtgatggttg aacttgctag tgattttctg gacaggaaca cacctgtgtt cagggatgac 300  
gtttgctttt tcatcagcca gtcaggcgag accgcggaca cctcctggc gctgcgctac 360  
tgtaaggacc gcggcgctct caccgtgggc gtcaccaaca ccgtgggcag ctccatctct 420  
cgcgagaccg actgcggcgt ccacatcaac gcagggccgg agatcggcgt ggccagcacc 480  
aaggcttata ccagtcagtt catctctctg gtgatgtttg gtttgatgat gtctgaagac 540  
cgaatttcac taaaaacag gaggcaagag atcatcctg gcttgagatc tttacctgag 600  
ctgatcaagg aagtgcgtgc tctggaggag aagatccacg acttggccct ggagctctac 660  
acgcagagat cgctgctggt gatggggcgg ggctacaact atgccacctg cctggaagga 720  
gccctgaaaa ttaaagagat aacctacatg cactcagaag gcatcctggc tggggagctg 780  
aagcacgggc ccctggcact gattgacaag cagatgcccg tcatcatggt cattatgaag 840  
gatccttgct tcgccaaatg ccagaacgcc ctgcagcaag tcacggcccg ccagggtcgc 900  
cccattatac tgtgctccaa ggacgatact gaaagtcca agtttgcgta taagacaatt 960  
gagctgcccc acactgtgga ctgcctccag ggcatcctga gcgtgattcc gctgcagctg 1020  
ctgtccttcc acctggctgt tctccgagga tatgacgttg acttccccag aaatctggcc 1080  
aagtctgtaa ctgtggaatg aggctgagac cgtgacaaga ccatcaccac ctttcatctg 1140  
attccagacc tgtcccaaca gcagggatgc tacatgggaa gagaagtgga catcccacat 1200  
gttctgcgtg ctctgttaga gcttgacagc ttccacgtgc cttctacca agtgcttttg 1260  
cttacagcag atactgtttc tctgtgtcct gaagtcgcca gaggagaagg gaatcattgt 1320  
ttacacatgg ggatcagagc agacttctcc actactgtgc aatagagata cagctctctt 1380  
cagagtaact gtgaaccttt tataaccaac actagagtta gttttaaaag acaagatatt 1440  
tataatgacg actgtatagc ttttaagtta tttttctagt atgtggcttt ctgtagccgt 1500  
ggtaacggcc aaactgttca tcctagctac ccattgctctg tgtccaggct tgctcctggc 1560  
agggtggcatt catctcagat gtgagcaca ggcatgggc ctctggactc ctttctcctt 1620  
ttctttcctc tctaggctgc tcctgaatcc tgttctctga catccgtgga gccctcctg 1680  
catccacctg tgctcctat aagtccagtt gaaatctcag cctccttcaa cattttctt 1740  
tcgtgtgtgg cccacatccc tccacttctc caacttctgt ttaatctgat cagggtctt 1800  
tttaagccct ggcagcattt tggctccctg tccttgccca tagtaaaaca gcttgaaata 1860

09629469.072300

-4680/13211-

tcccatgcaa gagagtagtt tcaagtgggc aactctgctc tctatttaaa agcggttcaca 1920  
atcaaaagta ctatgcaatt ttaggacaat aaagaacata cagttt 1966

<210> 11222

<211> 357

<212> PRT

<213> Homo sapiens

<400> 11222

Met	Gln	Lys	Glu	Ile	Phe	Glu	Gln	Pro	Glu	Ser	Val	Phe	Asn	Thr	Met
1				5					10					15	
Arg	Gly	Arg	Val	Asn	Phe	Glu	Thr	Asn	Thr	Val	Leu	Leu	Gly	Gly	Leu
			20					25					30		
Lys	Asp	His	Leu	Lys	Glu	Ile	Arg	Arg	Cys	Arg	Arg	Leu	Ile	Val	Ile
		35					40					45			
Gly	Cys	Gly	Thr	Ser	Tyr	His	Ala	Ala	Val	Ala	Thr	Arg	Gln	Val	Leu
	50					55					60				
Glu	Glu	Leu	Thr	Glu	Leu	Pro	Val	Met	Val	Glu	Leu	Ala	Ser	Asp	Phe
65					70					75					80
Leu	Asp	Arg	Asn	Thr	Pro	Val	Phe	Arg	Asp	Asp	Val	Cys	Phe	Phe	Ile
				85					90					95	
Ser	Gln	Ser	Gly	Glu	Thr	Ala	Asp	Thr	Leu	Leu	Ala	Leu	Arg	Tyr	Cys
			100				105						110		
Lys	Asp	Arg	Gly	Ala	Leu	Thr	Val	Gly	Val	Thr	Asn	Thr	Val	Gly	Ser
		115					120					125			
Ser	Ile	Ser	Arg	Glu	Thr	Asp	Cys	Gly	Val	His	Ile	Asn	Ala	Gly	Pro
	130					135					140				
Glu	Ile	Gly	Val	Ala	Ser	Thr	Lys	Ala	Tyr	Thr	Ser	Gln	Phe	Ile	Ser
145					150					155					160
Leu	Val	Met	Phe	Gly	Leu	Met	Met	Ser	Glu	Asp	Arg	Ile	Ser	Leu	Gln
				165					170					175	
Asn	Arg	Arg	Gln	Glu	Ile	Ile	Arg	Gly	Leu	Arg	Ser	Leu	Pro	Glu	Leu
			180					185					190		
Ile	Lys	Glu	Val	Leu	Ser	Leu	Glu	Glu	Lys	Ile	His	Asp	Leu	Ala	Leu
	195						200					205			
Glu	Leu	Tyr	Thr	Gln	Arg	Ser	Leu	Leu	Val	Met	Gly	Arg	Gly	Tyr	Asn
	210					215					220				
Tyr	Ala	Thr	Cys	Leu	Glu	Gly	Ala	Leu	Lys	Ile	Lys	Glu	Ile	Thr	Tyr
225					230					235					240
Met	His	Ser	Glu	Gly	Ile	Leu	Ala	Gly	Glu	Leu	Lys	His	Gly	Pro	Leu
				245					250					255	
Ala	Leu	Ile	Asp	Lys	Gln	Met	Pro	Val	Ile	Met	Val	Ile	Met	Lys	Asp
		260					265						270		
Pro	Cys	Phe	Ala	Lys	Cys	Gln	Asn	Ala	Leu	Gln	Gln	Val	Thr	Ala	Arg
		275					280						285		
Gln	Gly	Arg	Pro	Ile	Ile	Leu	Cys	Ser	Lys	Asp	Asp	Thr	Glu	Ser	Ser
	290					295						300			

09629469.072300

Lys Phe Ala Tyr Lys Thr Ile Glu Leu Pro His Thr Val Asp Cys Leu  
 305 310 315 320  
 Gln Gly Ile Leu Ser Val Ile Pro Leu Gln Leu Leu Ser Phe His Leu  
 325 330 335  
 Ala Val Leu Arg Gly Tyr Asp Val Asp Phe Pro Arg Asn Leu Ala Lys  
 340 345 350  
 Ser Val Thr Val Glu  
 355

<210> 11223  
 <211> 2058  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1)..(684)

<400> 11223  
 atggcagtgg agtcattcat ggcaacagcc ccctttgtcc aaattggcag gtttttcctc 60  
 tcgtcaggcc tcatcgacaa agtcgacaac ttcaagtccc tgagcctatc caagctggag 120  
 gacctcatg tggacatcat tcgccgtgga gactttttct accacagcga aaatcccaag 180  
 tatccagagg tgggagactt gcgtgtctcc ttttcctatg ctggactgag cggcgatgac 240  
 cctgacctgg gccagctca cgtggctact gtgattgccc ggcagcgggg tgaccagcta 300  
 gtcccattct ccaccaagtc tggggatacc ttactgtctc tgcaccacgg ggactttctca 360  
 goagaggagg tgtttcatag agaactaagg agcaactcca tgaagacctg gggcctgcgg 420  
 gcagctggct ggatggccat gttcatgggc ctcaacctta tgacacggat cctctacacc 480  
 ttgggtggact ggtttcctgt tttccgagac ctgggtcaaca ttggcctgaa agcctttgcc 540  
 ttctgtgtgg ccacctcgt gacctcgtg accgtggcgg ctggctggct cttctaccga 600  
 cccctgtggg ccctcctcat tgcggcctg gcccttgtgc ccctccttgt tgctcggaca 660  
 cgggtgccag ccaaaaagtt ggagtgaata gacctggca ccgcccgcac acctgcgtga 720  
 gccctaggat ccaggtcctc tctcacctct gacctagctc catgccagag caggagcccc 780  
 ggtcaatttt ggactctgca ctccctctcc tcttcagggg ccagacttgg cagcatgtgc 840  
 accaggttgg tgttcaccag ctcatgtctt ccccatctt cttcttgcca gtaagcagct 900  
 ttgggtgggca gcagcagctc atgaatggca agctgacagc ttctcctgtt gtttccttcc 960  
 tctcttggac tgagtgggta cggccagcca ctacgcccac tggcagctga caacgcagac 1020  
 acgctctacg gaggcctgct gataaagggc tcagccttgc cgtgtgctgc ttctcatcac 1080  
 tgcacacaag tgccatgctt tgccaccacc accaagcaca tctgtgatcc tgaaggcgcg 1140  
 ccgttagtca ttactgtgta gtcctgggtc accagcagac aacttgggca tggaccctc 1200  
 aaagcaggca caccaaaac acaagtctgt ggctagaacc tgatgtggtg tttaaaagag 1260  
 aagaaacact gaagatgtcc tgaggagaaa agctggacat atactgggtc tcacacttat 1320  
 cttatggctt ggcagaatct ttgtagtgtg tgggatctct gaaggcccta tttaagtttt 1380  
 tcttcgttac tttgctgctt catgtgtact ttctacccc aagaggaagt tttctgaaat 1440  
 aagatttaaa aacaaaacaa aaaaaacact taatatttca gactgttaca ggaaacaccc 1500  
 tttagtctgt cagttgaatt cagagcactg aaaggtgtta aattggggta tgtggtttga 1560  
 ttgataaaaa gttacctctc agtattttgt gtcactgaga agctttacaa tggatgcttt 1620  
 tgaaacaagt atcagcaaaa ggatttgttt tcaactctggg aggagagggt ggagaaaagca 1680

003220.69462960



-4682/13211-

cttgctttca tcctctggca tcggaaactc ccctatgcac ttgaagatgg tttaaaagat 1740  
taaagaaacg attaagagaa aaggttggaa gctttatact aaatgggctc cttcatggtg 1800  
acgccccgtc aaccacaatc aagaactgag gcctgaggot ggttgtacaa tgcccacgcc 1860  
tgccctggctg ctttcacctg ggagtgtgtt ogatgtgggc acctgggctt cctagggctg 1920  
cttctgagtg gttctttcac gtgttgtgtc catagottta gtcttcctaa ataagatcca 1980  
cccacacctc agtcacagaa tttctaagtt cccaactac tctcacacc ttttaaagat 2040  
aaagtatgtt gtaaccag 2058

<210> 11224

<211> 228

<212> PRT

<213> Homo sapiens

<400> 11224

Met Ala Val Glu Ser Phe Met Ala Thr Ala Pro Phe Val Gln Ile Gly  
1 5 10 15  
Arg Phe Phe Leu Ser Ser Gly Leu Ile Asp Lys Val Asp Asn Phe Lys  
20 25 30  
Ser Leu Ser Leu Ser Lys Leu Glu Asp Pro His Val Asp Ile Ile Arg  
35 40 45  
Arg Gly Asp Phe Phe Tyr His Ser Glu Asn Pro Lys Tyr Pro Glu Val  
50 55 60  
Gly Asp Leu Arg Val Ser Phe Ser Tyr Ala Gly Leu Ser Gly Asp Asp  
65 70 75 80  
Pro Asp Leu Gly Pro Ala His Val Val Thr Val Ile Ala Arg Gln Arg  
85 90 95  
Gly Asp Gln Leu Val Pro Phe Ser Thr Lys Ser Gly Asp Thr Leu Leu  
100 105 110  
Leu Leu His His Gly Asp Phe Ser Ala Glu Glu Val Phe His Arg Glu  
115 120 125  
Leu Arg Ser Asn Ser Met Lys Thr Trp Gly Leu Arg Ala Ala Gly Trp  
130 135 140  
Met Ala Met Phe Met Gly Leu Asn Leu Met Thr Arg Ile Leu Tyr Thr  
145 150 155 160  
Leu Val Asp Trp Phe Pro Val Phe Arg Asp Leu Val Asn Ile Gly Leu  
165 170 175  
Lys Ala Phe Ala Phe Cys Val Ala Thr Ser Leu Thr Leu Leu Thr Val  
180 185 190  
Ala Ala Gly Trp Leu Phe Tyr Arg Pro Leu Trp Ala Leu Ile Ala  
195 200 205  
Gly Leu Ala Leu Val Pro Ile Leu Val Ala Arg Thr Arg Val Pro Ala  
210 215 220  
Lys Lys Leu Glu  
225

<210> 11225

09629469.072300

<211> 1863  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (7).. (1329)

<400> 11225

```

agatgcatgt tgcagtgctc atcagtagaa gtcagcttct tacctctcat agtgaataca 60
gttgctctgc ctgatgaatt gagctacata tgtacacatg gggaagactg ggatgtagct 120
tacattattc atctttatcc ttctctcact ttgcggaatc ttctcccata ttccctaaga 180
tatttacttg agggaacagc agaaactcat gagctggcag aaggcagtac tgctgatgtt 240
ctgcattcga gaatcagtgg tgaaataatg gaattagtc tggtgaaata ccagggcaaa 300
aactggaatg gacatttcgc catacgtgat aactaccag aattctttcc tgtgtgtttt 360
tcttctgact ccacagaagt gacgacagtc gacctgtcag tccacgtcag gagaattggc 420
agccggatgg tgctgtctgt ctttagtccc tattggttaa tcaacaagac taccgggtt 480
ctccagtatc gttcagaaga tattcatgtg aaacatccag ctgatttcag ggatattatt 540
ttattttctt tcaagaagaa gaacattttt actaaaaata aggtacaatt aaaaatttca 600
accagtgcct ggtccagtag ttctcatttg gatacagtg gaagttatgg gtgtgtgaag 660
tgtcctgcca acaatatgga gtacctggtt ggtgttagca tcaaatgag cagtttcaac 720
ctttcacgaa tagttacct gactcccttt tgtaccattg caaacaagtc atcattagaa 780
ctagaagttg gcgagattgc atctgatggc tcaatgccaa ctaataaatg gaactatatt 840
gcttcttcag agtgccttcc attttggcca gaaaatttgt caggcaaaact ttgtgtgaga 900
gtggtgggct gtgaaggatc ttccaaacca ttcttttata accgacagga taatggcact 960
ttattgagct tagaagatct gaatgggggt atcttggtag atgtaaacac tgccgaacat 1020
tcaactgtca taactttttc tgattaccat gagggatctg cacctgcctt gataatgaac 1080
catacaccat gggacatcct cacatacaaa cagagtgggt caccagaaga aatggtcttg 1140
ctgccaagac aggctcgact ttttgacctg gcagatccta ctggtaccag aaaacttaca 1200
tggaacatag cagcaaatgt tggggaacat gatctgttaa aggtatcttt tgatgtgaat 1260
gagtgctata tgagttacct gacagtgaag gaagtagaga agctatcttc actgactcct 1320
tgtcctaatt gaactaaaag tgaattggaa gtatttccag aataagtagc ttttggactt 1380
tagatggcaa atactgtagt tcaaaccagt atattacttt agctctatca aagtaattta 1440
tttacaattt aaaaaataga cctgctttat ctgacctatg taaagcacct ttttaattaa 1500
tttacctatt ttaaaaggaa ggaattgtaa gactaagtta aaaacaactt tattttgaac 1560
atacctatgc cacttttggc tatgagtttt taaagcttgt tttcctaagc acagctatgt 1620
attttgttaa ttaatgaagt ctgatagtat gcaattatc gcatgtaaga aatttagtga 1680
aatatttato gaaacaatat ttaggtagct gagttgatta aatatgttat tttttagact 1740
cttagcctct gaaagggccc aaagaattca tataccatcc tccatctga tataggaatt 1800
gtcctgcat tagtaatata tcatccagtt tctgtatgaa taaaatccat gatgaaagag 1860
ttt

```

<210> 11226  
<211> 441  
<212> PRT  
<213> Homo sapiens

000220.69462950

<400> 11226

Met	Leu	Gln	Cys	Pro	Ser	Val	Glu	Val	Ser	Phe	Leu	Pro	Leu	Ile	Val
1				5					10					15	
Asn	Thr	Val	Ala	Leu	Pro	Asp	Glu	Leu	Ser	Tyr	Ile	Cys	Thr	His	Gly
			20					25					30		
Glu	Asp	Trp	Asp	Val	Ala	Tyr	Ile	Ile	His	Leu	Tyr	Pro	Ser	Leu	Thr
		35					40					45			
Leu	Arg	Asn	Leu	Leu	Pro	Tyr	Ser	Leu	Arg	Tyr	Leu	Leu	Glu	Gly	Thr
	50					55					60				
Ala	Glu	Thr	His	Glu	Leu	Ala	Glu	Gly	Ser	Thr	Ala	Asp	Val	Leu	His
65					70					75					80
Ser	Arg	Ile	Ser	Gly	Glu	Ile	Met	Glu	Leu	Val	Leu	Val	Lys	Tyr	Gln
				85					90					95	
Gly	Lys	Asn	Trp	Asn	Gly	His	Phe	Arg	Ile	Arg	Asp	Thr	Leu	Pro	Glu
			100					105					110		
Phe	Phe	Pro	Val	Cys	Phe	Ser	Ser	Asp	Ser	Thr	Glu	Val	Thr	Thr	Val
		115					120					125			
Asp	Leu	Ser	Val	His	Val	Arg	Arg	Ile	Gly	Ser	Arg	Met	Val	Leu	Ser
	130					135					140				
Val	Phe	Ser	Pro	Tyr	Trp	Leu	Ile	Asn	Lys	Thr	Thr	Arg	Val	Leu	Gln
145					150					155					160
Tyr	Arg	Ser	Glu	Asp	Ile	His	Val	Lys	His	Pro	Ala	Asp	Phe	Arg	Asp
				165					170					175	
Ile	Ile	Leu	Phe	Ser	Phe	Lys	Lys	Lys	Asn	Ile	Phe	Thr	Lys	Asn	Lys
			180					185					190		
Val	Gln	Leu	Lys	Ile	Ser	Thr	Ser	Ala	Trp	Ser	Ser	Ser	Phe	Ser	Leu
		195					200					205			
Asp	Thr	Val	Gly	Ser	Tyr	Gly	Cys	Val	Lys	Cys	Pro	Ala	Asn	Asn	Met
	210					215					220				
Glu	Tyr	Leu	Val	Gly	Val	Ser	Ile	Lys	Met	Ser	Ser	Phe	Asn	Leu	Ser
225					230					235					240
Arg	Ile	Val	Thr	Leu	Thr	Pro	Phe	Cys	Thr	Ile	Ala	Asn	Lys	Ser	Ser
				245					250					255	
Leu	Glu	Leu	Glu	Val	Gly	Glu	Ile	Ala	Ser	Asp	Gly	Ser	Met	Pro	Thr
			260					265					270		
Asn	Lys	Trp	Asn	Tyr	Ile	Ala	Ser	Ser	Glu	Cys	Leu	Pro	Phe	Trp	Pro
		275					280					285			
Glu	Asn	Leu	Ser	Gly	Lys	Leu	Cys	Val	Arg	Val	Val	Gly	Cys	Glu	Gly
	290					295					300				
Ser	Ser	Lys	Pro	Phe	Phe	Tyr	Asn	Arg	Gln	Asp	Asn	Gly	Thr	Leu	Leu
305					310					315					320
Ser	Leu	Glu	Asp	Leu	Asn	Gly	Gly	Ile	Leu	Val	Asp	Val	Asn	Thr	Ala
				325					330					335	
Glu	His	Ser	Thr	Val	Ile	Thr	Phe	Ser	Asp	Tyr	His	Glu	Gly	Ser	Ala
			340					345					350		
Pro	Ala	Leu	Ile	Met	Asn	His	Thr	Pro	Trp	Asp	Ile	Leu	Thr	Tyr	Lys
		355					360					365			
Gln	Ser	Gly	Ser	Pro	Glu	Glu	Met	Val	Leu	Leu	Pro	Arg	Gln	Ala	Arg

09629469.072300

-4685/13211-

370	375	380
Leu Phe Ala Trp Ala Asp Pro Thr Gly Thr Arg Lys Leu Thr Trp Thr		
385	390	395
Tyr Ala Ala Asn Val Gly Glu His Asp Leu Leu Lys Val Ser Phe Asp		400
	405	410
Val Asn Glu Cys Tyr Met Ser Tyr Leu Thr Val Lys Glu Val Glu Lys		415
	420	425
Leu Ser Ser Leu Thr Pro Cys Pro Asn		430
435	440	

<210> 11227  
<211> 2088  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (755).. (1483)

<400> 11227  
actcattggt cgcagctgat gtcactcgca gttgtgagcg gccgcctctc ccggggacaa 60  
tgtgggactg agcggcccag ccgccgtgcc gccgccgccg ccgccgcagg acagccccag 120  
cgaggccatt tccagcacat agaagagaga ttggaaccca acgtgcagaa ctgccagtcc 180  
cctgacacgc tgtgccccac ccaactgcagc ccagtgtctga atgaaccctg cccagagggtg 240  
tgtgtagtga gcttctgccc tagtgacttt tggtagggtgg gagtgtgcct caattccccc 300  
ctcaaccctt gcctcaagcc tttaccagga agtggcaaga cctgaccaca cccgaggcct 360  
ccctgccttc aaggcttccc atggctgtct cagcttccct cccagctgct cttctgtgct 420  
ccatccacca tctggctgct ggacgaaagt gcctctcata tgggaagccg ccagggttga 480  
gcgcggacac actcgcaggt cgtgtgtggc ccagcctcgc ctgacagaat gagcggctcg 540  
gacgggggac tggaggagga gccagagctc agcatcacc tcacgctgcg gatgctgatg 600  
cacgggaagg aagtgggcag catcatcggg aagaaggcg agactgtaaa gcgaatccgg 660  
gagcagtgcc cggatcacca tctccgaggg ctcttgccct gaacgcatca ccaccatcac 720  
cgggtctaca gcagctgtct tccatgcagt ctccatgatt gctttcaaac tggatgagga 780  
cctttgtgct gctcctgcaa atggtggaaa tgtctccagg cctccagtga cctgcgcct 840  
tgtcatccct gccagtcagt gtggctcact gattgggaag gctggcacca agatcaagga 900  
gatccgagag gtcaccaagc tccagcagct ctcaagccat gcggtcccct ttgccacacc 960  
cagcgtgggt ccaggactgg atcccggcac acagaccagc tcacaggagt tcttgggtcc 1020  
caacgatttg attggctgtg tgatcggggc ccagggcagc aagatcagcg agatccggca 1080  
gatgtcaggg gcacatatca agatcgggaa ccaagcagag ggcgctgggg agcggcatgt 1140  
caccatcact ggctctccgg tctccatcgc cctggcccag tacctcatca ctgcctgtct 1200  
agagacggcc aagtctacct ctggggggac gccagctcg gccccgcag acctgcctgc 1260  
ccccttctcg ccaccctga cggccctgcc cacagctccc cctggcctgc tgggcacacc 1320  
ctatgccatc tccctctcca acttcatcgg cctcaagccc atgcccctct tggctttacc 1380  
acctgcttcc ccagggccgc cgcggggtt ggcggcctac actgccaaga tggcagcagc 1440  
taatgggagc aagaaggctg agcggcagaa attctcccc tactgaggcc agctgaggta 1500  
caggcagggg caggcaggac caccagcagg gggctgcctc tgcaccctac ccgccaag 1560  
agactccacc ctgggggtccc aaacgccgct aacgcccaga cgcattgatg caccctctac 1620

09529459.072800

```
cctgcctcca tctatgggag ttctttctct cagagtgggg gcagtttctg gccaggggt 1680
ctgagctgcg gcagccccag ggcagggggc cctacctcct cagctctgtg cttggataca 1740
gggagcagcc aggagactcc ctatgtcccc caccatggcg ggtgtcactc acgcactccc 1800
catcccttag ggcttcctgg cctactgcac ccttgtggga gtcagggagg agggcccggt 1860
gggtagctgg ggccaggcct ctctccccac cacctgcaga ttctctgctg cttccactga 1920
tacccttttg actggaatga actggctggg cttgtcaggg ggcaccccaa agagggggca 1980
ctgccaggta gctgggggag tggcatgggg caggggcccc gttctcagca gcagacactc 2040
tgtacagttt tttcaatccc tgtttttgaa taaatattct cagcgacc 2088
```

<210> 11228  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 11228

Met	Ile	Ala	Phe	Lys	Leu	Asp	Glu	Asp	Leu	Cys	Ala	Ala	Pro	Ala	Asn
1				5					10					15	
Gly	Gly	Asn	Val	Ser	Arg	Pro	Pro	Val	Thr	Leu	Arg	Leu	Val	Ile	Pro
			20					25					30		
Ala	Ser	Gln	Cys	Gly	Ser	Leu	Ile	Gly	Lys	Ala	Gly	Thr	Lys	Ile	Lys
		35					40					45			
Glu	Ile	Arg	Glu	Val	Thr	Lys	Leu	Gln	Gln	Leu	Ser	Ser	His	Ala	Val
	50					55					60				
Pro	Phe	Ala	Thr	Pro	Ser	Val	Val	Pro	Gly	Leu	Asp	Pro	Gly	Thr	Gln
	65				70					75					80
Thr	Ser	Ser	Gln	Glu	Phe	Leu	Val	Pro	Asn	Asp	Leu	Ile	Gly	Cys	Val
			85						90					95	
Ile	Gly	Arg	Gln	Gly	Ser	Lys	Ile	Ser	Glu	Ile	Arg	Gln	Met	Ser	Gly
		100					105						110		
Ala	His	Ile	Lys	Ile	Gly	Asn	Gln	Ala	Glu	Gly	Ala	Gly	Glu	Arg	His
	115					120						125			
Val	Thr	Ile	Thr	Gly	Ser	Pro	Val	Ser	Ile	Ala	Leu	Ala	Gln	Tyr	Leu
	130					135					140				
Ile	Thr	Ala	Cys	Leu	Glu	Thr	Ala	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Pro
145				150					155						160
Ser	Ser	Ala	Pro	Ala	Asp	Leu	Pro	Ala	Pro	Phe	Ser	Pro	Pro	Leu	Thr
			165						170					175	
Ala	Leu	Pro	Thr	Ala	Pro	Pro	Gly	Leu	Leu	Gly	Thr	Pro	Tyr	Ala	Ile
		180					185						190		
Ser	Leu	Ser	Asn	Phe	Ile	Gly	Leu	Lys	Pro	Met	Pro	Phe	Leu	Ala	Leu
	195					200					205				
Pro	Pro	Ala	Ser	Pro	Gly	Pro	Pro	Pro	Gly	Leu	Ala	Ala	Tyr	Thr	Ala
	210				215					220					
Lys	Met	Ala	Ala	Ala	Asn	Gly	Ser	Lys	Lys	Ala	Glu	Arg	Gln	Lys	Phe
225					230					235					240
Ser	Pro	Tyr													

00822.0" 69462960

<210> 11229  
<211> 1972  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (442).. (1566)

<400> 11229

```

gaagaagaag aacttctagg tcctaaacta gaagaggaag aagaagagga agtagttgaa 60
aatgatgagg agatagcctt ttcaggcaag gacaagccag cttcagagaa tagtgaggag 120
aagctgatca gtaagtttga caagcttcca gtaaagatcg tacagaagaa tgatccattt 180
gtggtggact gctcagataa gcttgggagt gtgcaggagt ttgacagtgg cctgctgcac 240
tggcggattg gtggggggga caccactgag catatccaga cccacttoga gagcaagaca 300
gagctgctgc cttcccggcc tcacgcaccc tgcccaccag cccctcggaa gcatgtgaca 360
acagcagagg gtacaccagg gacaacagac caggaggggc cccacctga tggacctcca 420
gaaaaacgga tcacagccac tatggatgac atgttgtcta ctcggtctag caccttgacc 480
gaggatggag ctaagagttc agaggccatc aaggagagca gcaagtttcc atttggcatt 540
agcccagcac agagccaccg gaacatcaag atcctagagg acgaaccca cagtaaggat 600
gagaccccac tgtgtaccct tctggactgg caggattctc ttgccaagcg ctgctgtctg 660
gtgtccaata ccattcgaag cctgtcattt gtgccaggca atgactttga gatgtccaaa 720
caccagggc tgctgctcat cctgggcaag ctgatcctgc tgcaccacaa gcaccagaa 780
cggaagcagg caccactaac ttatgaaaag gaggaggaac aggaccaagg ggtgagctgc 840
aacaaagtgg agtggtggtg ggactgcttg gagatgctcc gggaaaacac cttggttaca 900
ctcgccaaca tctcggggca gttggacctt tctccatacc ccgagagcat ttgcctgcct 960
gtcctggacg gactcctaca ctgggcagtt tgcccttcag ctgaagccca ggaccccttt 1020
tccaccctgg gcccgaatgc cgtcctttcc ccgcagagac tggctttgga aaccctcagc 1080
aaactcagca tccaggacaa caatgtggac ctgattctgg ccacaccccc cttcagccgc 1140
ctggagaagt tgtatagcac tatggtgcgc ttccctcagt accgaaagaa cccggtgtgc 1200
cgggagatgg ctgtggtact gctggccaac ctggctcagg gggacagcct ggcagctcgt 1260
gccattgcag tgcagaaggg cagtatcggc aacctcctgg gcttcctaga ggacagcctt 1320
gccgccacac agttccagca gagccaggcc agcctcctcc acatgcagaa cccacccttt 1380
gagccaaacta gtgtggacat gatgcggcgg gctgcccogc cgctgcttgc cttggccaag 1440
gtggacgaga accactcaga gtttactctg tacgaatcac ggctgttggga catctcggtg 1500
tcaccgttga tgaactcatt ggtttcacia gtcatctgtg atgtactgtt tttgattggc 1560
cagtcattgac agccgtggga cacctcccc ccccggtgtg gtgtgcgtgt gtggagaact 1620
tagaaactga ctgttgccct ttatttatgc aaaaccacct cagaatccag tttaccctgt 1680
gctgtccagc ttctcccttg ggaaaaagtc tctcctgttt ctctctctc cttccacctc 1740
ccctccctcc atcacctcac gcctttctgt tccttgtcct caccttactc ccctcaggac 1800
cctacccac cctctttgaa aagacaaagc tctgcctaca tagaagactt tttttatatt 1860
aaccaaagtt actgttggtt acagtgaagt tggggaaaaa aaataaaata aaaatggctt 1920
tccagtcct tgcattcaacg gcatgccaca ttccataact gtttttaaat gt 1972

```

<210> 11230



	340		345		350										
Val	Ser	Pro	Leu	Met	Asn	Ser	Leu	Val	Ser	Gln	Val	Ile	Cys	Asp	Val
	355		360												
Leu	Phe	Leu	Ile	Gly	Gln	Ser									
	370					375									

<210> 11231  
 <211> 1898  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (112).. (1350)

<400> 11231

cacgtccaag	gaaccgatct	tcctgaccca	attgctacat	ttcagcaact	tgaccaggaa	60
tataaaatca	attctcgact	acttcagaac	attctagatg	caggtttcca	aatgcctacg	120
ccaatccaaa	tgcaagccat	cccagttatg	ctgcatggtc	gggaacttct	ggcttctgct	180
ccaactggat	ctggaaaaac	attagotitt	agcattccta	ttttaatgca	gctgaaacaa	240
cccgcaaata	aaggcttcag	agccctgatt	atatcaccaa	cacgagaact	tgccagccag	300
attcacagag	agttaataaa	aatttctgag	ggaacaggat	tcagaatata	catgatccac	360
aaagcagcag	tggcagccaa	gaaatttgga	cctaaatcat	ctaaaaagtt	tgatattctt	420
gtgactactc	caaatcgact	aatctattta	ttaaagcaag	atccccccgg	aatcgacctt	480
gcaagtgttg	agtggcttgt	agtagacgaa	tcagataaac	tgtttgaaga	tggcaaaact	540
gggttcagag	accagctggc	ttccattttc	ctggcctgca	catcccacaa	ggtccgaaga	600
gctatgttca	gtgcaacttt	tgcatatgat	gttgaacagt	ggtgcaaact	caacctggac	660
aatgtcatca	gtgtgtccat	tggagcaagg	aattctgcag	tagaaactgt	agaacaagag	720
cttctctttg	ttggatctga	gaccggaaaa	cttctggccg	tgagagaact	tgttaaaaag	780
ggtttcaatc	cacctgttct	tgtttttgtt	cagtccattg	aaagggctaa	agaacttttt	840
catgagctca	tatatgaagg	tattaatgtg	gatgttattc	atgcagagag	aacacaacaa	900
cagagagata	acacagtcca	cagtttcaga	gcaggaaaaa	tctgggttct	gatttgtaca	960
gccttgctag	caagagggat	tgatttttaa	ggtgtgaact	tggtgatcaa	ctatgacttt	1020
ccaactagct	cagtgggaata	tatccacagg	ataggtcgaa	ctggaagagc	agggaataag	1080
ggaaaagcaa	ttacattttt	cactgaggat	gataagccat	tattaagaag	cgttgctaata	1140
gttatacagc	aggctgggtg	tcctgtacca	gaatacataa	aaggttttca	gaaactacta	1200
agcaaacaaa	agaaaaagat	gattaagaaa	ccatttgaaa	gggagagcat	tagtacaact	1260
ccaaaatgtt	tcttagaaaa	agctaaggat	aaacagaaaa	aggtcactgg	tcagaacagc	1320
aagaagaaag	tagctcttga	agacaaaagt	taaaaacaga	ctttaaaaaat	actgtcccag	1380
aaatgtaatt	ttatgatccc	agcatgaatg	ttattttcat	ggaatacttg	aagtctttaca	1440
gtcacctgta	ccaaacattt	gaaatcaact	acaagtacat	gggactgggt	ataaatgatc	1500
ctaaactatc	aagtcagttt	caattttag	gtgccttttt	tttttctgt	agagatgagg	1560
gtcttgccat	gttgtccagg	ctggtcttga	actcctgacc	tcacacaatc	ctcctgcctt	1620
agcctcctga	gtaactgaga	ttacaggcac	aagctgctgc	accagctct	gtaggtgact	1680
tttaaatgat	tatacaatgg	aaataacatt	cattgacatt	tctgtggttt	gaatccagag	1740
agatacttct	tatagaaaaa	caaattgtta	tgctaaaaat	aacaccaaaa	tgtggtgaac	1800
tcttaaggac	ttttcccttc	aagtgtgaag	gaaggtgtga	tgaatgctgt	ggagaggcat	1860

000220"09462960





-4691/13211-

305					310					315				320	
Gly	Asn	Lys	Gly	Lys	Ala	Ile	Thr	Phe	Phe	Thr	Glu	Asp	Asp	Lys	Pro
				325					330					335	
Leu	Leu	Arg	Ser	Val	Ala	Asn	Val	Ile	Gln	Gln	Ala	Gly	Cys	Pro	Val
			340					345					350		
Pro	Glu	Tyr	Ile	Lys	Gly	Phe	Gln	Lys	Leu	Leu	Ser	Lys	Gln	Lys	Lys
		355					360					365			
Lys	Met	Ile	Lys	Lys	Pro	Leu	Glu	Arg	Glu	Ser	Ile	Ser	Thr	Thr	Pro
	370					375					380				
Lys	Cys	Phe	Leu	Glu	Lys	Ala	Lys	Asp	Lys	Gln	Lys	Lys	Val	Thr	Gly
385					390					395					400
Gln	Asn	Ser	Lys	Lys	Lys	Val	Ala	Leu	Glu	Asp	Lys	Ser			
			405					410							

<210> 11233  
<211> 1868  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (85).. (1215)

<400> 11233  
ctccccgagc tgaccaagct ggacatcacc aataaccac ggctgtcctt catccacccc 60  
cgcgcttcc accacctgcc ccagatggag accctcatgc tcaacaacaa cgctctcagt 120  
gccttgacc agcagacggt ggagtccctg cccaacctgc aggaggtagg tctccacggc 180  
aaccatcc gctgtgactg tgtcatccgc tgggccaatg ccacgggcac ccgtgtccgc 240  
ttcatcgagc cgcaatccac cctgtgtgcg gagcctccgg acctccagcg cctcccggtc 300  
cgtgaggtgc ccttccggga gatgacggac cactgtttgc ccctcatctc cccacgaagc 360  
ttcccccaa gcctccaggt agccagtggg gagagcatgg tgctgcattg ccgggcactg 420  
gccgaacccg aaccgagat ctactgggtc actccagctg ggcttcgact gacacctgcc 480  
catgcaggca ggaggtaccg ggtgtacccc gaggggaccc tggagctgcg gagggtgaca 540  
gcagaagagg cagggctata cacctgtgtg gccagaacc tgggtggggc tgacactaag 600  
acggttagtg tggttgtggg ccgtgctctc ctccagccag gcagggacga aggacagggg 660  
ctggagctcc ggtgacagga gaccacccc tatcacatcc tgotatcttg ggtcacccca 720  
cccaacacag tgtccaccaa cctcacctgg tccagtgcct cctccctccg gggccagggg 780  
gccacagctc tggccgcct gcctcgggga acccacagct acaacattac ccgcctcctt 840  
caggccacgg agtactgggc ctgcctgcaa gtggcctttg ctgatgcca caccagttg 900  
gcttgtgtat gggccaggac caaagaggcc acttcttgcc acagagcctt aggggatcgt 960  
cctgggctca ttgccatcct ggctctcgct gtcttctcc tggcagctgg gctagcggcc 1020  
caccttgga caggccaacc caggaagggt gtgggtggga ggcggcctct ccctccagcc 1080  
tgggctttct ggggctggag tgcccttct gtccgggttg tgtctgctcc cctcgtcctg 1140  
ccctggaatc cagggaggaa gctgccaga tctcagaag gggagacact gttgccacca 1200  
ttgtctcaaa attcttgaag ctcagcctgt tctcagcagt agagaaatca ctaggactac 1260  
tttttaccaa aagagaagca gtctgggcca gatgccctgc caggaaaggg acatggaccc 1320  
acgtgcttga ggctggcag ctgggccaag acagatgggg ctttgtggcc ctgggggtgc 1380

09629469.072800

```

ttctgcagcc ttgaaaaagt tgcccttacc tcctagggtc acctctgctg ccattctgag 1440
gaacatctcc aaggaacagg agggactttg gctagagcot cctgcctccc catcttctct 1500
ctgccagag gctcctgggc ctggcttggc tgtccctac ctgtgtcccc gggctgcacc 1560
ccttctctt ctcttctct gtacagtctc agttgcttgc tottgtgcct cctgggcaag 1620
ggctgaagga ggccactcca tctcacctcg gggggctgoc ctcaatgtgg gagtgacccc 1680
agccagatct gaaggacatt tgggagaggg atgccagga acgcctcatc tcagcagcct 1740
gggctcggca ttccgaagct gactttctat aggcaatitt gtacctttgt ggagaaatgt 1800
gtcacctccc ccaaccgat tcactctttt ctctgtttt gtaaaaaata aaaataaata 1860
ataacaat

```

<210> 11234  
 <211> 377  
 <212> PRT  
 <213> Homo sapiens

<400> 11234

Met	Glu	Thr	Leu	Met	Leu	Asn	Asn	Asn	Ala	Leu	Ser	Ala	Leu	His	Gln
1				5					10					15	
Gln	Thr	Val	Glu	Ser	Leu	Pro	Asn	Leu	Gln	Glu	Val	Gly	Leu	His	Gly
			20					25					30		
Asn	Pro	Ile	Arg	Cys	Asp	Cys	Val	Ile	Arg	Trp	Ala	Asn	Ala	Thr	Gly
			35				40					45			
Thr	Arg	Val	Arg	Phe	Ile	Glu	Pro	Gln	Ser	Thr	Leu	Cys	Ala	Glu	Pro
			50			55					60				
Pro	Asp	Leu	Gln	Arg	Leu	Pro	Val	Arg	Glu	Val	Pro	Phe	Arg	Glu	Met
					70				75					80	
Thr	Asp	His	Cys	Leu	Pro	Leu	Ile	Ser	Pro	Arg	Ser	Phe	Pro	Pro	Ser
				85					90					95	
Leu	Gln	Val	Ala	Ser	Gly	Glu	Ser	Met	Val	Leu	His	Cys	Arg	Ala	Leu
			100					105					110		
Ala	Glu	Pro	Glu	Pro	Glu	Ile	Tyr	Trp	Val	Thr	Pro	Ala	Gly	Leu	Arg
			115				120					125			
Leu	Thr	Pro	Ala	His	Ala	Gly	Arg	Arg	Tyr	Arg	Val	Tyr	Pro	Glu	Gly
			130			135					140				
Thr	Leu	Glu	Leu	Arg	Arg	Val	Thr	Ala	Glu	Glu	Ala	Gly	Leu	Tyr	Thr
					150					155					160
Cys	Val	Ala	Gln	Asn	Leu	Val	Gly	Ala	Asp	Thr	Lys	Thr	Val	Ser	Val
				165					170					175	
Val	Val	Gly	Arg	Ala	Leu	Leu	Gln	Pro	Gly	Arg	Asp	Glu	Gly	Gln	Gly
			180					185					190		
Leu	Glu	Leu	Arg	Val	Gln	Glu	Thr	His	Pro	Tyr	His	Ile	Leu	Leu	Ser
			195				200					205			
Trp	Val	Thr	Pro	Pro	Asn	Thr	Val	Ser	Thr	Asn	Leu	Thr	Trp	Ser	Ser
			210			215					220				
Ala	Ser	Ser	Leu	Arg	Gly	Gln	Gly	Ala	Thr	Ala	Leu	Ala	Arg	Leu	Pro
					230					235				240	
Arg	Gly	Thr	His	Ser	Tyr	Asn	Ile	Thr	Arg	Leu	Leu	Gln	Ala	Thr	Glu

000220" 69462960



ccagagcggc atcatctcct gcatagcctt cagcccagcc cagcccctct atgcctgttg 1200  
ctcctacggc cgctcccttg gtctgtatgc ctgggatgat ggctcccctc tcgccttgct 1260  
gggagggcac caagggggca tcaccacact ctgctttcat cccgatggca accgcttctt 1320  
ctcaggagcc cgcaaggatg ctgagctcct gtgctgggat ctccggcagt ctggttatcc 1380  
actgtggtcc ctgggtcgag aggtgaccac caatcagcgc atctacttcg atctggaccc 1440  
gaccgggcag ttcttagtga gtggcagcac gagcggggct gtctctgtgt gggacacgga 1500  
cgggcctggc aatgatggga agccggagcc cgtgttgagt tttctgcccc agaaggactg 1560  
caccaatggc gtgagcctgc accctagcct gcctctcctg gccactgcct ccggtcagcg 1620  
tgtgtttcct gagcccacag agagtgggga cgaaggagag gagctgggcc ttcccttgct 1680  
ctccacgcgc caggtccacc ttgaatgtcg gcttcagctc tgggtggtgtg ggggggcgcc 1740  
agactccagc atccctgatg atcaccaggg cgagaaaggg caggaggagg cggagggagg 1800  
tgtgggtgag ctgatataaa aaggttttta tgat 1834

<210> 11236  
<211> 548  
<212> PRT  
<213> Homo sapiens

<400> 11236  
Met Lys Thr Leu Glu Thr Gln Pro Leu Ala Pro Asp Cys Cys Pro Ser  
1 5 10 15  
Asp Gln Asp Pro Val Pro Ala His Pro Ser Pro His Ala Ser Pro Met  
20 25 30  
Asn Lys Asn Ala Asp Ser Glu Leu Met Pro Pro Pro Pro Glu Arg Gly  
35 40 45  
Asp Pro Pro Arg Leu Ser Pro Asp Pro Val Ala Gly Ser Ala Val Ser  
50 55 60  
Gln Glu Leu Arg Glu Gly Asp Pro Val Ser Leu Ser Thr Pro Leu Glu  
65 70 75 80  
Thr Glu Phe Gly Ser Pro Ser Glu Leu Ser Pro Arg Ile Glu Glu Gln  
85 90 95  
Glu Leu Ser Glu Asn Thr Ser Leu Pro Ala Glu Glu Ala Asn Gly Ser  
100 105 110  
Leu Ser Glu Glu Glu Ala Asn Gly Pro Glu Leu Gly Ser Gly Lys Ala  
115 120 125  
Met Glu Asp Thr Ser Gly Glu Pro Ala Ala Glu Asp Glu Gly Asp Thr  
130 135 140  
Ala Trp Asn Tyr Ser Phe Ser Gln Leu Pro Arg Phe Leu Ser Gly Ser  
145 150 155 160  
Trp Ser Glu Phe Ser Thr Gln Pro Glu Asn Phe Leu Lys Gly Cys Lys  
165 170 175  
Trp Ala Pro Asp Gly Ser Cys Ile Leu Thr Asn Ser Ala Asp Asn Ile  
180 185 190  
Leu Arg Ile Tyr Asn Leu Pro Pro Glu Leu Tyr His Glu Gly Glu Gln  
195 200 205  
Val Glu Tyr Ala Glu Met Val Pro Val Leu Arg Met Val Glu Gly Asp  
210 215 220

009220"69462960



<220>  
<221> CDS  
<222> (407).. (955)

<400> 11237

```

ctttattacg gggccaacgc agtcaccgcc gtccgcagtc acagtccagc cactgaccgc 60
agcagcgcgc ttgcgtagca gccgcttgca gcgagaacac tgaattgcca acgagcagga 120
gagtcctcaag gcgcaagagg aggccagggc togaccacac gagcaccctc agccatcgcg 180
agtttccggg cgccaaagcc aggagaagcc gcccatcccg cagggccggt ctgccagcga 240
gacgagagtt ggcgagggcg gaggagtgcg gggaatcccg ccacaccggc tatagccagg 300
ccccagcgc gggccttgga gagcgcgtga aggcgggcat ccccttgacc cggccgacca 360
tccccgtgcc cctgcgtccc tgcgctccaa cgtccgcgcg gccaccatga tgcaaactctg 420
cgacacctac aaccagaagc actcgtctct taacgccatg aatcgcttca ttggcgccgt 480
gaacaacatg gaccagacgg tgatggtgcc cagcttgctg cgcgacgtgc ccctggctga 540
ccccgggtta gacaacgatg ttggcgtgga ggtaggcggc agtggcgggt gcctggagga 600
gcgcacgccc ccagtccccg actcgggaag cgccaatggc agctttttcg cgccctctcg 660
ggacatgtac agccactacg tgccttctcaa gtccatccgc aacgacatcg agtgggggggt 720
cctgcaccag ccgcctccac cggctggggag cgaggagggc agtgcctgga agtccaagga 780
catcctggtg gacctgggac acttgaggag tgcggaacgc ggcaagaag acctggaaca 840
gcagttccac taccacctgc gcgggctgca cactgtgctc tcgaaactca cgcgcaaagc 900
caacatcctc actaacagat acaagcagga gatcggtctc ggcaattggg gccactgagg 960
cgtggcgccc gtggctgccc agcaccttct tcgaccatc tcacctctc tcattcctca 1020
aagctttttt ttttctctgg ctggggggcg ggaagggcag actgcaaact ggggggctgc 1080
gtacgtgcag gaggcgcggt ggggctgcgt ggaggagggg gccacgtgtg agagagaaga 1140
aaatggtggc cggagatggg agggcccaag gaacctcctg ggagggggcc tgcattctat 1200
gttggtggga atgggactgg gctgacgccc tgcattcagc ctgtgccttt cctgggggtt 1260
cttttctgtt cttttcggag gagagggccc gagaaggggc cataccaggg cgcggcgctg 1320
ggttgccaca cttgggaaag cagcccgagg ctgggtgctg gggaaggcgg ggcgcgtagc 1380
ctccgcgcgc cctgcggttg ggccggtgga ggcccaggcg ttgctaggat tgcattcagt 1440
ttcctgtttg cactatttct ttttgtaaca ttggccctgt gtgaagtatt tcgaatctcc 1500
tccttgctct gaaacttcag cgattccatt gtgataagcg cacaaacagc actgtctgtc 1560
ggtaatcggt actactttat taatgatttt ctgttacact gtatagtagt cctatggcac 1620
ccccaccca tccctttcgt gccactcccg tccccacccc caccaccagt tgtataagct 1680
ggcatttcgc cagcttgtag gtagcttgcc actcagtga aataataaca ttattatgag 1740
aaagtggact taaccgaaat ggaaccaact gacattctat cgtgttgtag atagaatgat 1800
gaagggttcc actgttggtg tatgtcttaa atttatttaa aacttttttt aatccagatg 1860
tagactatat tctaaaaaat aaaaaagcaa atgtgtcaac t 1901

```

<210> 11238  
<211> 183  
<212> PRT  
<213> Homo sapiens

<400> 11238

```

Met Met Gln Ile Cys Asp Thr Tyr Asn Gln Lys His Ser Leu Phe Asn
  1                   5                   10                   15

```

Ala Met Asn Arg Phe Ile Gly Ala Val Asn Asn Met Asp Gln Thr Val  
20 25 30  
Met Val Pro Ser Leu Leu Arg Asp Val Pro Leu Ala Asp Pro Gly Leu  
35 40 45  
Asp Asn Asp Val Gly Val Glu Val Gly Gly Ser Gly Gly Cys Leu Glu  
50 55 60  
Glu Arg Thr Pro Pro Val Pro Asp Ser Gly Ser Ala Asn Gly Ser Phe  
65 70 75 80  
Phe Ala Pro Ser Arg Asp Met Tyr Ser His Tyr Val Leu Leu Lys Ser  
85 90 95  
Ile Arg Asn Asp Ile Glu Trp Gly Val Leu His Gln Pro Pro Pro Pro  
100 105 110  
Ala Gly Ser Glu Glu Gly Ser Ala Trp Lys Ser Lys Asp Ile Leu Val  
115 120 125  
Asp Leu Gly His Leu Glu Gly Ala Asp Ala Gly Glu Glu Asp Leu Glu  
130 135 140  
Gln Gln Phe His Tyr His Leu Arg Gly Leu His Thr Val Leu Ser Lys  
145 150 155 160  
Leu Thr Arg Lys Ala Asn Ile Leu Thr Asn Arg Tyr Lys Gln Glu Ile  
165 170 175  
Gly Phe Gly Asn Trp Gly His  
180

<210> 11239  
<211> 1699  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (91).. (708)

<400> 11239  
atttaccaag ggacattgga gctccccaca ccactcattg ctgcccacca gctatacaac 60  
tacgtggctg atcacgccag ctcttaccac atgaagccat tgogaatggc ccggccaggg 120  
ggcccagaac acaacgagta tgccctgggtg tcggcatggc acagttcttg ctctacctg 180  
gactctgagg gacttcgaca ccaggatgac ttgatgtgt ctctgcttgt ctgtcactgt 240  
gctgcaccct ttgaggagca aggagaggct gagcggcacg ttctgaggct acagttcttc 300  
gtgggtgctca ccagccagcg agagctcttc cccaggctca ctgtgacat gcgccgcttc 360  
cggaagccac ccagactgcc ccctgagcca gaggctcctg ggagttcagc tggcagccct 420  
ggggaggcct cagggttat tctagcgct ggaccggctc ctctgttccc accactggct 480  
gcagaggtgg gcatggcagc agcacggctg gctcagctgg tggggtggc tggagggcac 540  
tgccgtcggg acacccttg gaagcgctc ttcttgctgg agccaccggg gcctgatcga 600  
ctgcggctag gggggcgctt ggccctggca gagctggagg aactcctaga agcagtcct 660  
gcaaatcca ttggggacat cgacccccag ctggactgtt cctatccatg acggtctcct 720  
ggtaccagag cctgatcaaa gttctcctaa gccgcttccc ccagagctgt cgccatttcc 780  
aaagcccaga cttgggaact cagtacctgg ttgtgctgaa tcagaagttc actgactgct 840

000220" 69462960



```

ttgtgctagt gtttctggac tccacttag gaaagacgtc tctgacagtg gttttccgag 900
agcccttccc agtacagccc caggacagcg agagccccc tgcccaactg gtctccacct 960
accaccacct ggagtctgtc atcaacacag cctgtttcac cctctggacc cgctcctct 1020
gagggagtgg actggaccac tgaatgtcac tgttccttga atcatgggac taccagattg 1080
cctgccagag gcaggactga ccagcccttc tgggccccag ggcaagccag aactgagtg 1140
acaccaaagg ctttgtaact atgtcttgag ggtctgtctc ccagcctgg cagcaggaac 1200
cgccctccc aaacacccac agccactgac ccacccagga ctccagagag tcaggtcaac 1260
cccaaggacc ccttggggcc ttctggggta ctctttcgg ccccttggg agagtctcgg 1320
gagttcacac aggggtggca acaccccta gagctcctct gcctgaatcc tgccccctag 1380
cctttgacca ctgtcagcca cctgtgtccc ttgagccttc gggtcttcac ttcccacttg 1440
gacatcactg ctggacattc ccacccagat gacacctggg ttccaatccc agctctgcct 1500
ttgaagcact tgcggccatc gtcaagtccc ttgtctctcg gaccctgggt ttctcactct 1560
ttaatgaggt gggttcagaa gctctcccat ctccacagca accctggcac tggcttctca 1620
atgggagggg agcagcagag aaactgaagt gttagacact atgtgtccca ccacccatt 1680
acagagacat atgacaatg                                     1699

```

<210> 11240  
 <211> 206  
 <212> PRT  
 <213> Homo sapiens

<400> 11240

Met	Lys	Pro	Leu	Arg	Met	Ala	Arg	Pro	Gly	Gly	Pro	Glu	His	Asn	Glu
1				5					10					15	
Tyr	Ala	Leu	Val	Ser	Ala	Trp	His	Ser	Ser	Gly	Ser	Tyr	Leu	Asp	Ser
			20					25					30		
Glu	Gly	Leu	Arg	His	Gln	Asp	Asp	Phe	Asp	Val	Ser	Leu	Leu	Val	Cys
		35				40						45			
His	Cys	Ala	Ala	Pro	Phe	Glu	Glu	Gln	Gly	Glu	Ala	Glu	Arg	His	Val
	50				55						60				
Leu	Arg	Leu	Gln	Phe	Phe	Val	Val	Leu	Thr	Ser	Gln	Arg	Glu	Leu	Phe
65				70					75					80	
Pro	Arg	Leu	Thr	Ala	Asp	Met	Arg	Arg	Phe	Arg	Lys	Pro	Pro	Arg	Leu
			85						90					95	
Pro	Pro	Glu	Pro	Glu	Ala	Pro	Gly	Ser	Ser	Ala	Gly	Ser	Pro	Gly	Glu
			100					105					110		
Ala	Ser	Gly	Leu	Ile	Leu	Ala	Pro	Gly	Pro	Ala	Pro	Leu	Phe	Pro	Pro
		115					120					125			
Leu	Ala	Ala	Glu	Val	Gly	Met	Ala	Arg	Ala	Arg	Leu	Ala	Gln	Leu	Val
	130					135					140				
Arg	Leu	Ala	Gly	Gly	His	Cys	Arg	Arg	Asp	Thr	Leu	Trp	Lys	Arg	Leu
145				150					155					160	
Phe	Leu	Leu	Glu	Pro	Gly	Pro	Asp	Arg	Leu	Arg	Leu	Gly	Gly	Arg	
			165				170						175		
Leu	Ala	Leu	Ala	Glu	Leu	Glu	Glu	Leu	Glu	Ala	Val	His	Ala	Lys	
		180					185					190			
Ser	Ile	Gly	Asp	Ile	Asp	Pro	Gln	Leu	Asp	Cys	Ser	Tyr	Pro		

195

200

205

<210> 11241  
<211> 1800  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (122).. (1150)

<400> 11241  
tattgaagat gctcttgttt taaacaaggc ctctttagac agaggctttg ggcgttgcct 60  
tgtatataaa aatgctaaat gtacgttgaa acgatacacc aatcagactt ttgataaagt 120  
gatggggccc atgttggatg ctgctacaag gaaacctatc tggcgacatg aaatccttaga 180  
tgcagatggg atttgttctc cagggtgagaa agtagaaaac aaacaagtgc ttgtaaataa 240  
gtccatgccc acagtgactc agattccttt ggaaggaagt aatgtaccac agcaaccaca 300  
gtacaaagat gtaccataa cctacaaagg agcaacagac tcatatattg aaaaagtgat 360  
gatatcttca aatgctgaag atgcttttct gatcaaaatg ctgctgagac agacaaggcg 420  
tccagaaatt ggagacaaat tcagcagtcg tcatgggcaa aaagggtgtt gtggcttgat 480  
cgtcccccag gaagacatgc cattttgtga ttctggcatc tgtccggaca tcatcatgaa 540  
cccacacggc tttccatcac gaatgacggg ggggaagctc attgagctgc tggctggcaa 600  
ggcgggtgtg ctggacggca gattccacta cggcactcog tttggaggca gtaaagtga 660  
ggatgtgtgt gaggacctcg ttccgcatgg ttataactac ttggggaaaag actatgttac 720  
atccggcatc acaggtgagc ccttagaagc atacatctat tttggccccg tgtactatca 780  
gaagctgaaa cacatggtgc tagataaaat gcatgcccgg gccgggggcc cagagccgt 840  
ccttaccagg caaccactg aaggacggtc tcgtgatggg ggcttgcgtc tcggggaaat 900  
ggaacgtgac tgtttaatcg gttatggagc cagtatgctt ttgctagaga gactaatgat 960  
ttcaagtgat gcccttgagg ttgatgtctg tgggcagtggt ggacttctgg ggtattctgg 1020  
ctgggtgccat tactgcaagt catcctgcca cgtgtcttcc ctccgtattc cgtatgcctg 1080  
caagctgctc ttccaggaac tacagtctat gaacatcatc cccagggtta aactgtccaa 1140  
gtacaatgaa tgaggatgga aaaaatgatt attaaagaga acaagtgata catccaatgc 1200  
aacggaaagc agaagggtatt taggactacg tctcctcctg tgaagaattc ccttgcgtat 1260  
tctctctcta aaacaacc aaataaatgg agaggctttt tatatactct aagactggct 1320  
aaacaacctt gatcattgag cctcgagcca tgggagagat gctgaccatg tggactgcaa 1380  
ggctgcttga ttcacagatg gatgtgacct aaaggataaa taagctatta cttatgtgct 1440  
gatctcttga cattcactca ttagaagacc ttactccttc aagcaaatgt ttgggggtcaa 1500  
atttaccata tcttctggct aacctatttc aagattcttc tgaaacttgg aggatgtaaa 1560  
gaatccattt gatttggcca gccctggctt tgtcgtgggt gctggctcgg ataaatttct 1620  
ccaacaatta aatcttgctt ttacacacco aaactttgta atttttagtct tggtgaaata 1680  
taatgaattt gttcctacct tgtcaagcaa gaatgtcgtc ttctcctatg gactcaattg 1740  
ctattatttt aaacctgcat gattgtacca tgcaatacta ttctgttaa atctgaatct 1800

<210> 11242  
<211> 343  
<212> PRT

000220 69462960

<213> Homo sapiens

<400> 11242

Met	Gly	Pro	Met	Leu	Asp	Ala	Ala	Thr	Arg	Lys	Pro	Ile	Trp	Arg	His
1				5					10					15	
Glu	Ile	Leu	Asp	Ala	Asp	Gly	Ile	Cys	Ser	Pro	Gly	Glu	Lys	Val	Glu
			20					25					30		
Asn	Lys	Gln	Val	Leu	Val	Asn	Lys	Ser	Met	Pro	Thr	Val	Thr	Gln	Ile
		35					40					45			
Pro	Leu	Glu	Gly	Ser	Asn	Val	Pro	Gln	Gln	Pro	Gln	Tyr	Lys	Asp	Val
	50					55					60				
Pro	Ile	Thr	Tyr	Lys	Gly	Ala	Thr	Asp	Ser	Tyr	Ile	Glu	Lys	Val	Met
65					70					75					80
Ile	Ser	Ser	Asn	Ala	Glu	Asp	Ala	Phe	Leu	Ile	Lys	Met	Leu	Leu	Arg
				85					90					95	
Gln	Thr	Arg	Arg	Pro	Glu	Ile	Gly	Asp	Lys	Phe	Ser	Ser	Arg	His	Gly
			100					105					110		
Gln	Lys	Gly	Val	Cys	Gly	Leu	Ile	Val	Pro	Gln	Glu	Asp	Met	Pro	Phe
		115					120					125			
Cys	Asp	Ser	Gly	Ile	Cys	Pro	Asp	Ile	Ile	Met	Asn	Pro	His	Gly	Phe
	130					135					140				
Pro	Ser	Arg	Met	Thr	Val	Gly	Lys	Leu	Ile	Glu	Leu	Leu	Ala	Gly	Lys
145					150					155					160
Ala	Gly	Val	Leu	Asp	Gly	Arg	Phe	His	Tyr	Gly	Thr	Ala	Phe	Gly	Gly
				165					170					175	
Ser	Lys	Val	Lys	Asp	Val	Cys	Glu	Asp	Leu	Val	Arg	His	Gly	Tyr	Asn
			180					185					190		
Tyr	Leu	Gly	Lys	Asp	Tyr	Val	Thr	Ser	Gly	Ile	Thr	Gly	Glu	Pro	Leu
	195					200						205			
Glu	Ala	Tyr	Ile	Tyr	Phe	Gly	Pro	Val	Tyr	Tyr	Gln	Lys	Leu	Lys	His
	210					215					220				
Met	Val	Leu	Asp	Lys	Met	His	Ala	Arg	Ala	Arg	Gly	Pro	Arg	Ala	Val
225					230					235					240
Leu	Thr	Arg	Gln	Pro	Thr	Glu	Gly	Arg	Ser	Arg	Asp	Gly	Gly	Leu	Arg
				245					250					255	
Leu	Gly	Glu	Met	Glu	Arg	Asp	Cys	Leu	Ile	Gly	Tyr	Gly	Ala	Ser	Met
			260					265					270		
Leu	Leu	Leu	Glu	Arg	Leu	Met	Ile	Ser	Ser	Asp	Ala	Phe	Glu	Val	Asp
	275						280					285			
Val	Cys	Gly	Gln	Cys	Gly	Leu	Leu	Gly	Tyr	Ser	Gly	Trp	Cys	His	Tyr
	290					295					300				
Cys	Lys	Ser	Ser	Cys	His	Val	Ser	Ser	Leu	Arg	Ile	Pro	Tyr	Ala	Cys
305					310					315					320
Lys	Leu	Leu	Phe	Gln	Glu	Leu	Gln	Ser	Met	Asn	Ile	Ile	Pro	Arg	Leu
				325					330					335	
Lys	Leu	Ser	Lys	Tyr	Asn	Glu									
			340												

09629469.072800

<210> 11243  
<211> 1972  
<212> DNA  
<213> Homo sapiens

<400> 11243

```
tgctggccag tacttgttct cccttgcccc aaccctttac cggatatcct gacaaactct 60
ccaattttct aaaatgatat ggagctctga aaggcatgtc cataaggtct gacaacagct 120
tgccaaattt ggttagtcct tggatcagag cctgtttgtg gaggtaggga ggaaatatgt 180
aaagaaaaac aggaagatac ctgcactaat cattcagact tcattgagct ctgcaaactt 240
tgccctgtttg ctattggcta ccttgatttg aaatgctttg tgaaaaaagg cacttttaac 300
atcatagcca cagaaatcaa gtgccagtct atctggaatc catgttgtat tgcagataat 360
gttctcattt atttttgatg tagaatttac attgccatgg gtgttaaata agctttgagt 420
caaaagtcaa gaaagtgact gaatatacag tcacctttta tgaaatgagt ctctgtgtta 480
ctgggtggca tgactgattg aggtgaagct cacggggcca ggctgaccgt cttgaccgtt 540
ccaactgaga taggttggtc atcgtgcaga agggcccagg acctcagcac acacagcctc 600
ctcttggctc gagtaggcat catgtggggg ccagatctgc ctgotgtttc catgggttac 660
atttactgtg ctgtatctca gatgttgggt tctggaagtt tattottaag agactgctac 720
ccagctggtc tgtattattg gaagttgcag ttcgtgcttt ggttggcctt ctggtctaaa 780
gotgtgtcct gaatattagg gatcacaatt cactgaaata cagcagtgtg tggaggtgat 840
ggccagttaa tctgctgaac tggttttgac taatgacaaa cctcttttta agatggtaga 900
atggagggtga tagtcacaaa agtaaattgt ccatttttat gaatgacttt ctacagagtt 960
tctatttcta aagaaaaaac aattgttcac atcccatctg atgattagca tgtgtgtaat 1020
gaatgotgtc ttggctctcc ctgtggaaac ctttctccct gtgccttaga gcagggtgtg 1080
acatctctca ctacctttct catgggtgct gttagatttt ggcacccgtt ttctcagcat 1140
tcagcccagg gaatgtgggt ttcaattctt cgtcaagacc aacatgaagg ggtatgttga 1200
gaaacatcct gaggcaaggt gggaggtggg atggggcagg actttccctt ccaagcacat 1260
gcatggcagg tggggaaagg ggggcttgca cccctgctgg aaagaaaagg tttgtgtata 1320
tttctgatgc aaatgtcata ctcaactgct tgtaaaggca gctggcagct ttttgggaaa 1380
agaacgtgct cgtctgttct ctggcatcaa gtttcttgca gctgctctga gggagagaca 1440
gtgagctgca agactgcctc ccataacaa caggcaactc agagaagagt cattttatgt 1500
tgttcctatg gaatctggaa tgagtgcaga gctcctaccc acacatgact gccccgccat 1560
ttcatcctag gcattctgtg aaggagattg gttagtccaa acttgctaac atacgaaaaat 1620
tcacttggaa catgatgaga gatttcttat tgaggccaag agatgtttcc tgtccagag 1680
gaaccattag gactcgcttt tagggtattc agctttgttc atgaaataag gcatctctga 1740
gaaagtggcc ccaggagag aatggaggac tgggaggaga agcattaact gagctccaag 1800
ggtgtgtggg cagagagctt gctatgtgaa ctcaactcct aagaaaatgg aagagaaaaa 1860
gagagtgcta gttaaaaaat cgggatgttt tagtttggat ttagggtttt gatacttatg 1920
ttgaaatact aatgtttctg atcaataaaa tcaactcctt aatataccga gt 1972
```

<210> 11244  
<211> 1771  
<212> DNA  
<213> Homo sapiens

<220>

<221> CDS  
<222> (220).. (1662)

<400> 11244

```

ggcctactgg tttatgaaga gctcgactct gactccgagg acctagaccc caatcctgaa 60
gatctggacc cggtttctga agaccagag cctgatcctg aagacctcaa cactgtcccg 120
gaagacgtgg accccagcta tgaagatctg gagccgtct cggaggatct ggaccccgac 180
gccgaagctc cgggctcgga accccaagat cccgaccca tgtcttcgag ttctgacctc 240
gatccagatg tgattggccc cgtaccctg attctcgatc ctaacagcga caccctcagc 300
cccggcgatc caaaagtgga cccatctcc tctggcctca ctgccacccc ccaggtcttg 360
gccaccagcc ccgcggtgct ccccgcccc gccagccgc cccggccctt ctctgcccg 420
gattgcgggc gagccttccg ccgcagctcc gggctgagcc agcatcgccg cagcacagc 480
ggcgagaagc cgtaccgctg cccgactgc gggaagtct tcagccacgg tgccaccctg 540
gctcagcacc gtggcatcca cactggggcg cggcgtacc agtgcgcggc ctgcggcaag 600
gccttcggct ggcgctccac gctgctgaaa catgcagca gccacagcgg ggagaagccg 660
caccactgcc cgggtgtgtg caaggccttc gggcacggct cgctcctggc acagcacctg 720
cgcacgcacg gcggcccgcg gccccacaag tgcccgggtg gcgccaaggg cttcggccag 780
ggctctgcgc tgctcaaaca cctgcgcacg cacacggcg agcggcccta cccgtgtccg 840
cagtgcggca aggccttcgg gcagagctcg gcgctgctgc agcaccagcg cacacacag 900
gccgagcgcc cctaccgctg ccccaactgc ggcaaagcct tcgggcagag ctccaacttg 960
caacaccacc tcgcgatcca cacgggcgag cggccctaag cctgcccga ctgctccaag 1020
gccttcggcc agagctcagc gctgctccag cacctgcacg tgcatcggg cgagcgtccc 1080
tatcgtgtc agctctgcgg gaaggccttc ggccaggcct ccagcctcac caagcaciaa 1140
cgggtgcatg aggtgtcagc cgctgctgca gctgcgcgg ccgctgcagc tgcagcagcg 1200
gccgccggcc tgggcctcgg gcctggccta agccctgcat ccatgatgag gccggggcag 1260
gtctccctcc tgggtcctga tgctgtttct gtgctcggct ctggcttggg cctcagccct 1320
ggcaccagct ctggccgcaa cctgaccct ggctctgggc cgggcaactc gccgatccc 1380
agctccaaac ccctccccg ctccagatcc accccagcc ctactcctgt ggaatcttct 1440
gacccaaagg ctgggcacga cgtggtcct gaccttgtgc ccagcccaga ccttgatcct 1500
gtgcccagcc cagaccctga tcctgtgccc agccctgato ccaaccctgt gtcctgccct 1560
gaccctgtt ctccactcg tggcactgtc agcccagccc tccctaccgg cgagagtcca 1620
gagtgggtac aggagcaagg ggcactgctg gggcctgatg gctgaaggag acgccggcat 1680
cctcgggggc ctggggaagt tgtgtgttgt gcagtcagta aaatcctccc actgcctccg 1740
gaaaaaaaaa aaaaaaaaaa aggccacatg t 1771

```

<210> 11245  
<211> 481  
<212> PRT  
<213> Homo sapiens

<400> 11245

```

Met Ser Ser Ser Phe Asp Leu Asp Pro Asp Val Ile Gly Pro Val Pro
 1             5             10             15
Leu Ile Leu Asp Pro Asn Ser Asp Thr Leu Ser Pro Gly Asp Pro Lys
      20             25             30
Val Asp Pro Ile Ser Ser Gly Leu Thr Ala Thr Pro Gln Val Leu Ala
      35             40             45

```

008220.69462960

-4703/13211-

Thr	Ser	Pro	Ala	Val	Leu	Pro	Ala	Pro	Ala	Ser	Pro	Pro	Arg	Pro	Phe
	50					55					60				
Ser	Cys	Pro	Asp	Cys	Gly	Arg	Ala	Phe	Arg	Arg	Ser	Ser	Gly	Leu	Ser
65					70					75					80
Gln	His	Arg	Arg	Thr	His	Ser	Gly	Glu	Lys	Pro	Tyr	Arg	Cys	Pro	Asp
				85					90					95	
Cys	Gly	Lys	Ser	Phe	Ser	His	Gly	Ala	Thr	Leu	Ala	Gln	His	Arg	Gly
			100					105					110		
Ile	His	Thr	Gly	Ala	Arg	Pro	Tyr	Gln	Cys	Ala	Ala	Cys	Gly	Lys	Ala
		115					120					125			
Phe	Gly	Trp	Arg	Ser	Thr	Leu	Lys	His	Arg	Ser	Ser	His	Ser	Gly	
130						135				140					
Glu	Lys	Pro	His	His	Cys	Pro	Val	Cys	Gly	Lys	Ala	Phe	Gly	His	Gly
145					150					155					160
Ser	Leu	Leu	Ala	Gln	His	Leu	Arg	Thr	His	Gly	Gly	Pro	Arg	Pro	His
				165					170					175	
Lys	Cys	Pro	Val	Cys	Ala	Lys	Gly	Phe	Gly	Gln	Gly	Ser	Ala	Leu	Leu
			180					185					190		
Lys	His	Leu	Arg	Thr	His	Thr	Gly	Glu	Arg	Pro	Tyr	Pro	Cys	Pro	Gln
		195					200					205			
Cys	Gly	Lys	Ala	Phe	Gly	Gln	Ser	Ser	Ala	Leu	Leu	Gln	His	Gln	Arg
210						215					220				
Thr	His	Thr	Ala	Glu	Arg	Pro	Tyr	Arg	Cys	Pro	His	Cys	Gly	Lys	Ala
225					230					235					240
Phe	Gly	Gln	Ser	Ser	Asn	Leu	Gln	His	His	Leu	Arg	Ile	His	Thr	Gly
				245					250					255	
Glu	Arg	Pro	Tyr	Ala	Cys	Pro	His	Cys	Ser	Lys	Ala	Phe	Gly	Gln	Ser
			260					265					270		
Ser	Ala	Leu	Leu	Gln	His	Leu	His	Val	His	Ser	Gly	Glu	Arg	Pro	Tyr
		275					280					285			
Arg	Cys	Gln	Leu	Cys	Gly	Lys	Ala	Phe	Gly	Gln	Ala	Ser	Ser	Leu	Thr
290						295					300				
Lys	His	Lys	Arg	Val	His	Glu	Gly	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala
305					310					315					320
Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Gly	Leu	Gly	Leu	Gly	Pro	Gly
				325					330					335	
Leu	Ser	Pro	Ala	Ser	Met	Met	Arg	Pro	Gly	Gln	Val	Ser	Leu	Leu	Gly
			340					345					350		
Pro	Asp	Ala	Val	Ser	Val	Leu	Gly	Ser	Gly	Leu	Gly	Leu	Ser	Pro	Gly
		355					360					365			
Thr	Ser	Ser	Gly	Arg	Asn	Pro	Asp	Pro	Gly	Ser	Gly	Pro	Gly	Thr	Leu
370						375					380				
Pro	Asp	Pro	Ser	Ser	Lys	Pro	Leu	Pro	Gly	Ser	Arg	Ser	Thr	Pro	Ser
385					390					395					400
Pro	Thr	Pro	Val	Glu	Ser	Ser	Asp	Pro	Lys	Ala	Gly	His	Asp	Ala	Gly
				405					410					415	
Pro	Asp	Leu	Val	Pro	Ser	Pro	Asp	Leu	Asp	Pro	Val	Pro	Ser	Pro	Asp
			420					425					430		

000220"69462960

-4704/13211-

Pro Asp Pro Val Pro Ser Pro Asp Pro Asn Pro Val Ser Cys Pro Asp  
          435                          440                          445  
Pro Cys Ser Pro Thr Arg Gly Thr Val Ser Pro Ala Leu Pro Thr Gly  
          450                          455                          460  
Glu Ser Pro Glu Trp Val Gln Glu Gln Gly Ala Leu Leu Gly Pro Asp  
465                          470                          475                          480  
Gly

<210> 11246  
<211> 2036  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (153).. (1397)

<400> 11246  
tgtgttacat ccatattgct gctctcattg cagagtatct gaaaagaaag ggttactgga 60  
aagtggaaaa gatttgcaca gcatccctgc tctcggagga taccaccccc tgtgatagca 120  
actcattact aacaactccc agtggaggaa gcatgttctc tatgggatgg ccagcttttt 180  
tgagcattac accaaacatt aaggaagaag gagcgatgaa agaggattct ggaatgcaag 240  
atacaccata caatgagaat atcctgggtg agcagctata catgtgtgtg gagtttctct 300  
ggaagtctga gcgatatgaa ctcatgtctg atgtcgacaa gcccatcatt gctgtctttg 360  
agaaacaacg agacttcaaa aaattgtcag atctctacta cgacattcat cggtcataatc 420  
tgaaagtggc agaggtgggtg aattcggaga agcggctgtt tggtcgctac tatcgtgttg 480  
cattttatgg gcagggcttt tttgaagaag aagaaggtaa agagtataat tataaagagc 540  
ctaagctgac aggtctgtcc gagatttccc aaagattact caagctctat gcagataaat 600  
ttggagcaga caatgtgaag ataatccagg attccaacaa ggtaaaccac aaggatttgg 660  
accccaaata tgcctacatc caggtgacct atgtgacgcc gttctttgag gaaaaggaaa 720  
tcgaagaccg gaagacagat ttcgaaatgc accacaacat caaccgcttt gtcttcgaga 780  
cacccttcac gctgtcgggc aagaagcacg gtgggggtggc ggagcagtgc aagcggcgga 840  
cgatcctgac aacgagtcac ctgttcccct acgtgaagaa gagaatacaa gtaattagcc 900  
aatcgagcac agaactgaat ccaattgaag tggcaattga cgagatgtcc aagaaggttt 960  
ctgagcttaa tcagctttgc acaatggaag aagtggacat gatcagactg cagctcaaac 1020  
tgcaaggaag tgtcagcgtg aaggttaatg ctggggccaat ggcctatgca cgagcttttc 1080  
ttgaagaaac caatgcaaag aagtaccctg acaaccaagt aaagcttttg aaggagatct 1140  
tcaggcaatt tgcagatgca tgtgggcagg cccttgacgt gaatgagcgc ctcatcaaa 1200  
aggaccagct ggagtaccag gaagaactga ggtcccacta caaggacatg ctacagcaac 1260  
tctccacagt catgaatgag cagattacgg gcagggacga cctgtcaaag cgcggagtgg 1320  
accaaacctg cactcgagta attagcaaag caactccggc cctacccacg gtctccatct 1380  
catctagtgc tgaagtctga gggctctgca gcatcagacc cacctctaag agaactttct 1440  
gaatttgcag ctaatctcgg ggaagagaaa gataggttta atttatttga agttttcatg 1500  
gtgttaatat ttttgtttac ctgcctagct tcagaatttt gccaacctct gaatttgcac 1560  
attttgtata atttttttt ctttgagcag tgttgatcaa gccaggttga atatttgcca 1620  
tgaaattcca gtgaatgtgt agctcaaatt caaacccata gtttgctgtc agttattgta 1680

000220-69462960

```

tggtcagtac cccagtccta gtacacatat tttaaagggt aaagtgaatg tttttgtaac 1740
atttaagcat atttcagatg taaataaaaag attgtaaaaat atacggtttt taccaaattt 1800
aaaagatcct ttttagttaa tactatgaca gtactaaaaa tatatgaata acatttcaga 1860
taccattata ttaaaatatt tgtgtatgtg tacaaaagcg ttgataaata ctaatcttta 1920
aagtttgtgg agttccttta tttgtaatat atgtgctcct aaaagcaatg ggatgtgaaa 1980
ttatgaaagt attttattgt tcatagaaat aaaaaacaca gttactttgc atttgg      2036

```

<210> 11247  
 <211> 415  
 <212> PRT  
 <213> Homo sapiens

<400> 11247

Met	Phe	Ser	Met	Gly	Trp	Pro	Ala	Phe	Leu	Ser	Ile	Thr	Pro	Asn	Ile	1	5	10	15
Lys	Glu	Glu	Gly	Ala	Met	Lys	Glu	Asp	Ser	Gly	Met	Gln	Asp	Thr	Pro	20	25	30	
Tyr	Asn	Glu	Asn	Ile	Leu	Val	Glu	Gln	Leu	Tyr	Met	Cys	Val	Glu	Phe	35	40	45	
Leu	Trp	Lys	Ser	Glu	Arg	Tyr	Glu	Leu	Ile	Ala	Asp	Val	Asp	Lys	Pro	50	55	60	
Ile	Ile	Ala	Val	Phe	Glu	Lys	Gln	Arg	Asp	Phe	Lys	Lys	Leu	Ser	Asp	65	70	75	80
Leu	Tyr	Tyr	Asp	Ile	His	Arg	Ser	Tyr	Leu	Lys	Val	Ala	Glu	Val	Val	85	90	95	
Asn	Ser	Glu	Lys	Arg	Leu	Phe	Gly	Arg	Tyr	Tyr	Arg	Val	Ala	Phe	Tyr	100	105	110	
Gly	Gln	Gly	Phe	Phe	Glu	Glu	Glu	Glu	Gly	Lys	Glu	Tyr	Ile	Tyr	Lys	115	120	125	
Glu	Pro	Lys	Leu	Thr	Gly	Leu	Ser	Glu	Ile	Ser	Gln	Arg	Leu	Leu	Lys	130	135	140	
Leu	Tyr	Ala	Asp	Lys	Phe	Gly	Ala	Asp	Asn	Val	Lys	Ile	Ile	Gln	Asp	145	150	155	160
Ser	Asn	Lys	Val	Asn	Pro	Lys	Asp	Leu	Asp	Pro	Lys	Tyr	Ala	Tyr	Ile	165	170	175	
Gln	Val	Thr	Tyr	Val	Thr	Pro	Phe	Phe	Glu	Glu	Lys	Glu	Ile	Glu	Asp	180	185	190	
Arg	Lys	Thr	Asp	Phe	Glu	Met	His	His	Asn	Ile	Asn	Arg	Phe	Val	Phe	195	200	205	
Glu	Thr	Pro	Phe	Thr	Leu	Ser	Gly	Lys	Lys	His	Gly	Gly	Val	Ala	Glu	210	215	220	
Gln	Cys	Lys	Arg	Arg	Thr	Ile	Leu	Thr	Thr	Ser	His	Leu	Phe	Pro	Tyr	225	230	235	240
Val	Lys	Lys	Arg	Ile	Gln	Val	Ile	Ser	Gln	Ser	Ser	Thr	Glu	Leu	Asn	245	250	255	
Pro	Ile	Glu	Val	Ala	Ile	Asp	Glu	Met	Ser	Lys	Lys	Val	Ser	Glu	Leu	260	265	270	

003270.69462960



Asn	Gln	Leu	Cys	Thr	Met	Glu	Glu	Val	Asp	Met	Ile	Arg	Leu	Gln	Leu
	275						280					285			
Lys	Leu	Gln	Gly	Ser	Val	Ser	Val	Lys	Val	Asn	Ala	Gly	Pro	Met	Ala
	290					295					300				
Tyr	Ala	Arg	Ala	Phe	Leu	Glu	Glu	Thr	Asn	Ala	Lys	Lys	Tyr	Pro	Asp
305					310					315					320
Asn	Gln	Val	Lys	Leu	Leu	Lys	Glu	Ile	Phe	Arg	Gln	Phe	Ala	Asp	Ala
			325						330					335	
Cys	Gly	Gln	Ala	Leu	Asp	Val	Asn	Glu	Arg	Leu	Ile	Lys	Glu	Asp	Gln
			340					345					350		
Leu	Glu	Tyr	Gln	Glu	Glu	Leu	Arg	Ser	His	Tyr	Lys	Asp	Met	Leu	Ser
	355						360					365			
Glu	Leu	Ser	Thr	Val	Met	Asn	Glu	Gln	Ile	Thr	Gly	Arg	Asp	Asp	Leu
	370					375					380				
Ser	Lys	Arg	Gly	Val	Asp	Gln	Thr	Cys	Thr	Arg	Val	Ile	Ser	Lys	Ala
385					390					395					400
Thr	Pro	Ala	Leu	Pro	Thr	Val	Ser	Ile	Ser	Ser	Ser	Ala	Glu	Val	
			405					410						415	

<210> 11248  
 <211> 2291  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (305).. (2212)

<400> 11248

taagaagtct	cttgaaataa	aagaagaaaa	aattgctgct	ttagaagctc	gattagaaga	60
atccacgaat	tataaccagc	aattgcgcca	agaacttaaa	acaaatgcta	cactgcaagc	120
agagaagcaa	gcgttgaaaa	ctcaactgaa	gcaacttgag	acacagaaca	ataatttgca	180
ggctcagatt	cttgcacttc	agaggcagac	agtgtcatta	caagaacaga	ataccactct	240
tcaaacacag	aatgccaagc	ttcagggttg	aaattccacc	cttaattccc	aaagtacctc	300
actcatgaac	cagaatgccc	aactccta	ccagcagctc	tcottagaaa	atgaaaatga	360
atctgtaatc	aaagagcgag	aagacctaaa	atctctctat	gattctctga	tcaaagatca	420
tgaaaagctg	gaacttcttc	atgaacgtca	ggcttcagag	tatgaatctc	ttatctctaa	480
acatggaact	ctgaagtctg	cccacaaaaa	tcttgagggtg	gaacatagag	accttgaaga	540
ccgttacaat	cagttattaa	aacagaaagg	acagttggaa	gatttggaaa	aaatgctcaa	600
agtagaacag	gaaaaaatgc	tgcttgaaaa	taaaaatcat	gaaacagtag	ctgcagaata	660
caagaaactt	tgtggtgaaa	atgataggct	gaatcatacc	tatagtcaac	ttttaaaaga	720
gactgaagtt	ttacaaactg	accataaaaa	tttgaaaagt	cttctgaata	attccaaact	780
ggaacaaaaca	agattagaag	ctgaattttc	aaaactaaag	gaacaatacc	aacaattgga	840
tattacatca	accaagctga	ataaccagt	tgagttgcta	agccaactta	aaggaaaattt	900
agaagaagaa	aatcggcatc	tactagatca	aattcagaca	ttaatgctac	agaacagaac	960
acttttggag	cagaatatgg	aaagcaagga	tctttttcat	gttgaacaaa	gacagtacat	1020
tgataagtta	aatgaattaa	gacgtcagaa	ggagaaacta	gaagagaaaa	ttatggatca	1080

09629469.072300

```

atacaaattt tatgacccat ctctctctag aaggagaggc aactggatta ctctaaaaat 1140
gagaaaattg ataaagtcta agaaagatat taatcgggaa cgccagaaat ctctaacatt 1200
aacacccacc cgctcagact ccagtgaagg atttcttcag ctccctcatc aagacagtca 1260
agatagttct tcagtaggtt caaactcttt agaagatggc cagaccttgg ggaccaagaa 1320
aagcagcacc atgaatgacc tgggtgcagtc catggtccta gcaggacagt ggacaggtag 1380
tactgagaat ttggaggttc ctgatgttat ttcaacgggt aaaaggagaa aagaattggg 1440
agctatggcc ttctctacta cagccatcaa cttttcaact gtcaactctt ctgcaggctt 1500
cagatccaag cagtttggtt ataataaaga tactacatcc ttgaagaca taagtccaca 1560
aggtgttagt gatgattcta gtacgggata aagagttcat gtttcaagac cagccagcct 1620
tgatagtggc agaacatcca ctagcaatag caataataat gtttcaactac atgaagtcaa 1680
agcaggtgca gttaataacc aaagcaggcc acaaagccac agcagtggag aatttagcct 1740
gcttcatgac catgaggctt ggtccagcag tggtagcagt ccaatccagt acttgaaaag 1800
acagaccaga tcaagcccag tgctccagca caaaatatct gaaacactgg agagtcgaca 1860
tcacaagatc aaaactgggt cccctggaag tgaagttgtt actctacaac agtttttgga 1920
agaaaacat aagcttacct cagtacagat aaagtcctca agtcaagaga atcttttaga 1980
tgaagtaatg aaaagtttgt ctgtctcttc tgactttttg ggaaaagaca aaccagttag 2040
ctgtggtctg gccaggtcag taagtggaaa aacccagggg gacttctatg atagacggac 2100
aactaagcct gagtttttga gacctggtcc tcgaaaaact gaagatacct acttcattag 2160
ttctgcggga aaacctacac caggcactca aggaaaaata aaatcagaag actgaaggag 2220
ttgaaagacc agtagacgct cctctactct ttgagacatc actggcctat aataaatggg 2280
ttaatttatg t 2291

```

<210> 11249  
 <211> 636  
 <212> PRT  
 <213> Homo sapiens

<400> 11249

Met	Asn	Gln	Asn	Ala	Gln	Leu	Leu	Ile	Gln	Gln	Ser	Ser	Leu	Glu	Asn
1				5				10						15	
Glu	Asn	Glu	Ser	Val	Ile	Lys	Glu	Arg	Glu	Asp	Leu	Lys	Ser	Leu	Tyr
			20					25					30		
Asp	Ser	Leu	Ile	Lys	Asp	His	Glu	Lys	Leu	Glu	Leu	Leu	His	Glu	Arg
		35					40					45			
Gln	Ala	Ser	Glu	Tyr	Glu	Ser	Leu	Ile	Ser	Lys	His	Gly	Thr	Leu	Lys
	50					55					60				
Ser	Ala	His	Lys	Asn	Leu	Glu	Val	Glu	His	Arg	Asp	Leu	Glu	Asp	Arg
65					70					75				80	
Tyr	Asn	Gln	Leu	Leu	Lys	Gln	Lys	Gly	Gln	Leu	Glu	Asp	Leu	Glu	Lys
			85					90						95	
Met	Leu	Lys	Val	Glu	Gln	Glu	Lys	Met	Leu	Leu	Glu	Asn	Lys	Asn	His
			100					105					110		
Glu	Thr	Val	Ala	Ala	Glu	Tyr	Lys	Leu	Cys	Gly	Glu	Asn	Asp	Arg	
	115					120					125				
Leu	Asn	His	Thr	Tyr	Ser	Gln	Leu	Leu	Lys	Glu	Thr	Glu	Val	Leu	Gln
	130					135					140				
Thr	Asp	His	Lys	Asn	Leu	Lys	Ser	Leu	Leu	Asn	Asn	Ser	Lys	Leu	Glu

009270.69462960

145					150					155				160	
Gln	Thr	Arg	Leu	Glu	Ala	Glu	Phe	Ser	Lys	Leu	Lys	Glu	Gln	Tyr	Gln
				165					170					175	
Gln	Leu	Asp	Ile	Thr	Ser	Thr	Lys	Leu	Asn	Asn	Gln	Cys	Glu	Leu	Leu
			180					185					190		
Ser	Gln	Leu	Lys	Gly	Asn	Leu	Glu	Glu	Glu	Asn	Arg	His	Leu	Leu	Asp
		195					200					205			
Gln	Ile	Gln	Thr	Leu	Met	Leu	Gln	Asn	Arg	Thr	Leu	Leu	Glu	Gln	Asn
	210					215					220				
Met	Glu	Ser	Lys	Asp	Leu	Phe	His	Val	Glu	Gln	Arg	Gln	Tyr	Ile	Asp
225				230						235					240
Lys	Leu	Asn	Glu	Leu	Arg	Arg	Gln	Lys	Glu	Lys	Leu	Glu	Glu	Lys	Ile
			245						250					255	
Met	Asp	Gln	Tyr	Lys	Phe	Tyr	Asp	Pro	Ser	Pro	Pro	Arg	Arg	Arg	Gly
		260					265						270		
Asn	Trp	Ile	Thr	Leu	Lys	Met	Arg	Lys	Leu	Ile	Lys	Ser	Lys	Lys	Asp
	275						280					285			
Ile	Asn	Arg	Glu	Arg	Gln	Lys	Ser	Leu	Thr	Leu	Thr	Pro	Thr	Arg	Ser
	290					295					300				
Asp	Ser	Ser	Glu	Gly	Phe	Leu	Gln	Leu	Pro	His	Gln	Asp	Ser	Gln	Asp
305					310					315					320
Ser	Ser	Ser	Val	Gly	Ser	Asn	Ser	Leu	Glu	Asp	Gly	Gln	Thr	Leu	Gly
			325						330					335	
Thr	Lys	Lys	Ser	Ser	Thr	Met	Asn	Asp	Leu	Val	Gln	Ser	Met	Val	Leu
			340					345					350		
Ala	Gly	Gln	Trp	Thr	Gly	Ser	Thr	Glu	Asn	Leu	Glu	Val	Pro	Asp	Val
		355					360					365			
Ile	Ser	Thr	Gly	Lys	Arg	Arg	Lys	Glu	Leu	Gly	Ala	Met	Ala	Phe	Ser
	370					375					380				
Thr	Thr	Ala	Ile	Asn	Phe	Ser	Thr	Val	Asn	Ser	Ser	Ala	Gly	Phe	Arg
385					390					395					400
Ser	Lys	Gln	Leu	Val	Asn	Asn	Lys	Asp	Thr	Thr	Ser	Phe	Glu	Asp	Ile
			405						410					415	
Ser	Pro	Gln	Gly	Val	Ser	Asp	Asp	Ser	Ser	Thr	Gly	Ser	Arg	Val	His
		420						425					430		
Ala	Ser	Arg	Pro	Ala	Ser	Leu	Asp	Ser	Gly	Arg	Thr	Ser	Thr	Ser	Asn
		435					440					445			
Ser	Asn	Asn	Asn	Ala	Ser	Leu	His	Glu	Val	Lys	Ala	Gly	Ala	Val	Asn
	450					455					460				
Asn	Gln	Ser	Arg	Pro	Gln	Ser	His	Ser	Ser	Gly	Glu	Phe	Ser	Leu	Leu
465					470					475					480
His	Asp	His	Glu	Ala	Trp	Ser	Ser	Ser	Gly	Ser	Ser	Pro	Ile	Gln	Tyr
			485						490					495	
Leu	Lys	Arg	Gln	Thr	Arg	Ser	Ser	Pro	Val	Leu	Gln	His	Lys	Ile	Ser
		500						505					510		
Glu	Thr	Leu	Glu	Ser	Arg	His	His	Lys	Ile	Lys	Thr	Gly	Ser	Pro	Gly
	515					520						525			
Ser	Glu	Val	Val	Thr	Leu	Gln	Gln	Phe	Leu	Glu	Glu	Ser	Asn	Lys	Leu

09629469.072800

530		535		540
Thr Ser Val Gln Ile Lys Ser Ser Ser Gln Glu Asn Leu Leu Asp Glu				
545		550		555
Val Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys Asp Lys				560
	565		570	575
Pro Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr Pro Gly				
	580		585	590
Asp Phe Tyr Asp Arg Arg Thr Thr Lys Pro Glu Phe Leu Arg Pro Gly				
	595		600	605
Pro Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly Lys Pro				
	610		615	620
Thr Pro Gly Thr Gln Gly Lys Ile Lys Ser Glu Asp				
625		630		635

<210> 11250  
<211> 2088  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (7).. (1872)

<400> 11250

aaaagaatgg	aggagtcgga	acccgaacgg	aagcgggctc	gcaccgacga	ggtgcctgcc	60
ggaggaagcc	gctccgaggc	ggaagatgag	gacgacgagg	actacgtgcc	ctatgtgccg	120
ttacggcagc	gccggcagct	actgctccag	aagctgctgc	agcgaagacg	cgagggagct	180
gcggaggaag	agcagcagga	cagcggtagt	gaaccccggg	gagatgagga	cgacatcccg	240
ctaggccctc	agtccaacgt	cagcctcctg	gatcagcacc	agcaccttaa	agagaaggct	300
gaagcgcgca	aagagtctgc	caaggagaag	cagctgaagg	aagaagagaa	gatcctggag	360
agtgttgccg	agggccgagc	attgatgtca	gtgaaggaga	tggctaaggg	cattacgtat	420
gatgaccca	tcaaaaccag	ctggactcca	ccccgttatg	ttctgagcat	gtctgaagag	480
cgacatgagc	gcgtgcggaa	gaaataccac	atcctggttg	agggagacgg	tatcccacca	540
cccatcaaga	gcttcaagga	aatgaagttt	cctgcaacca	tcctgagagg	cctgaagaag	600
aaaggcattc	accaccaaac	accattcag	atccagggca	tccccaccat	tctatctggc	660
cgtgacatga	taggcacgc	tttcacgggt	tcaggcaaga	cactggtgtt	cacgttgccc	720
gtcatcatgt	tctgcctgga	acaagagaag	aggttaccct	tctcaaagcg	cgagggggccc	780
tatggactca	tcatctgccc	ctcgcgggag	ctggcccggc	agacccatgg	catcctggag	840
tactactgcc	gcctgctgca	ggaggacagc	tcaccactcc	tgcgctgcgc	cctctgcatt	900
gggggcatgt	ccgtgaaaga	gcagatggag	accatccgac	acggtgtaca	catgatggtg	960
gccaccccg	ggcgcctcat	ggatttgctg	cagaagaaga	tggtcagcct	agacatctgt	1020
cgctacctgg	ccctggacga	ggcggaccgc	atgatcgaca	cgggcttoga	gggtgacatc	1080
cgtaccatct	tctcctactt	caagggccag	cgacagaccc	tgtctctcag	tgccaccatg	1140
ccgaagaaga	ttcagaactt	tgctaagagt	gcccttgtaa	agcctgtgac	catcaatgtg	1200
gggcgcgctg	gggctgccag	cctggatgtc	atccaggagg	tagaatatgt	gaaggaggag	1260
gccaaagatg	tgtacctgct	cgagtgcctg	cagaagacac	ccccgcctgt	actcatcttt	1320
gcagagaaga	aggcagacgt	ggacgccatc	cacgagtacc	tgctgctcaa	gggggttgag	1380

09629469.072800

```

gccgtagcca tccatggggg caaagaccag gaggaacgga ctaaggccat cgaggcattc 1440
cgggagggca agaaggatgt cctagtagcc acagacgttg cctccaaggg cctggacttc 1500
cctgccatcc agcacgtcat caattatgac atgccagagg agattgagaa ctatgtacac 1560
cggattggcc gcaccgggcg ctcgggaaac acaggcatcg ccactacctt catcaacaaa 1620
gcgtgtgatg agtcagtgtc gatggacctc aaagcgctgc tgctagaagc caagcagaag 1680
gtgccgcccg tgctgcaggt gctgcattgc ggggatgagt ccatgctgga cattggagga 1740
gagcgcggct gtgccttctg cggggggcctg ggtcatcgga tcaactgactg ccccaaactc 1800
gaggctatgc agaccaagca ggtcagcaac atcggtcgca aggactacct ggcccacagc 1860
tccatggact tctgagccga cagtcttccc ttctctccaa gaggcctcag tccccaagac 1920
tgccaccagt ctacacatac agcagccccc tggacagaat cagcatttca gctcagctgg 1980
cctggaatgg gccaggctgg tccctggctgc ctgttccctg tgctcttcag aattactgtt 2040
tttgtttcct tttaccccag ctgccattaa agcccaaaacc tctagccc 2088

```

<210> 11251  
 <211> 622  
 <212> PRT  
 <213> Homo sapiens

<400> 11251

Met	Glu	Glu	Ser	Glu	Pro	Glu	Arg	Lys	Arg	Ala	Arg	Thr	Asp	Glu	Val	1	5	10	15
Pro	Ala	Gly	Gly	Ser	Arg	Ser	Glu	Ala	Glu	Asp	Glu	Asp	Asp	Glu	Asp	20	25	30	
Tyr	Val	Pro	Tyr	Val	Pro	Leu	Arg	Gln	Arg	Arg	Gln	Leu	Leu	Leu	Gln	35	40	45	
Lys	Leu	Leu	Gln	Arg	Arg	Arg	Glu	Gly	Ala	Ala	Glu	Glu	Glu	Gln	Gln	50	55	60	
Asp	Ser	Gly	Ser	Glu	Pro	Arg	Gly	Asp	Glu	Asp	Asp	Ile	Pro	Leu	Gly	65	70	75	80
Pro	Gln	Ser	Asn	Val	Ser	Leu	Leu	Asp	Gln	His	Gln	His	Leu	Lys	Glu	85	90	95	
Lys	Ala	Glu	Ala	Arg	Lys	Glu	Ser	Ala	Lys	Glu	Lys	Gln	Leu	Lys	Glu	100	105	110	
Glu	Glu	Lys	Ile	Leu	Glu	Ser	Val	Ala	Glu	Gly	Arg	Ala	Leu	Met	Ser	115	120	125	
Val	Lys	Glu	Met	Ala	Lys	Gly	Ile	Thr	Tyr	Asp	Asp	Pro	Ile	Lys	Thr	130	135	140	
Ser	Trp	Thr	Pro	Pro	Arg	Tyr	Val	Leu	Ser	Met	Ser	Glu	Glu	Arg	His	145	150	155	160
Glu	Arg	Val	Arg	Lys	Tyr	His	Ile	Leu	Val	Glu	Gly	Asp	Gly	Ile	165	170	175		
Pro	Pro	Pro	Ile	Lys	Ser	Phe	Lys	Glu	Met	Lys	Phe	Pro	Ala	Thr	Ile	180	185	190	
Leu	Arg	Gly	Leu	Lys	Lys	Lys	Gly	Ile	His	His	Pro	Thr	Pro	Ile	Gln	195	200	205	
Ile	Gln	Gly	Ile	Pro	Thr	Ile	Leu	Ser	Gly	Arg	Asp	Met	Ile	Gly	Ile	210	215	220	

09629469.072800

-4711/13211-

Ala	Phe	Thr	Gly	Ser	Gly	Lys	Thr	Leu	Val	Phe	Thr	Leu	Pro	Val	Ile
225					230					235					240
Met	Phe	Cys	Leu	Glu	Gln	Glu	Lys	Arg	Leu	Pro	Phe	Ser	Lys	Arg	Glu
			245						250					255	
Gly	Pro	Tyr	Gly	Leu	Ile	Ile	Cys	Pro	Ser	Arg	Glu	Leu	Ala	Arg	Gln
			260					265					270		
Thr	His	Gly	Ile	Leu	Glu	Tyr	Tyr	Cys	Arg	Leu	Leu	Gln	Glu	Asp	Ser
		275					280					285			
Ser	Pro	Leu	Leu	Arg	Cys	Ala	Leu	Cys	Ile	Gly	Gly	Met	Ser	Val	Lys
	290					295					300				
Glu	Gln	Met	Glu	Thr	Ile	Arg	His	Gly	Val	His	Met	Met	Val	Ala	Thr
305					310					315					320
Pro	Gly	Arg	Leu	Met	Asp	Leu	Leu	Gln	Lys	Lys	Met	Val	Ser	Leu	Asp
				325					330					335	
Ile	Cys	Arg	Tyr	Leu	Ala	Leu	Asp	Glu	Ala	Asp	Arg	Met	Ile	Asp	Thr
			340					345					350		
Gly	Phe	Glu	Gly	Asp	Ile	Arg	Thr	Ile	Phe	Ser	Tyr	Phe	Lys	Gly	Gln
		355					360					365			
Arg	Gln	Thr	Leu	Leu	Phe	Ser	Ala	Thr	Met	Pro	Lys	Lys	Ile	Gln	Asn
	370					375					380				
Phe	Ala	Lys	Ser	Ala	Leu	Val	Lys	Pro	Val	Thr	Ile	Asn	Val	Gly	Arg
385					390					395					400
Ala	Gly	Ala	Ala	Ser	Leu	Asp	Val	Ile	Gln	Glu	Val	Glu	Tyr	Val	Lys
				405					410					415	
Glu	Glu	Ala	Lys	Met	Val	Tyr	Leu	Leu	Glu	Cys	Leu	Gln	Lys	Thr	Pro
			420					425					430		
Pro	Pro	Val	Leu	Ile	Phe	Ala	Glu	Lys	Lys	Ala	Asp	Val	Asp	Ala	Ile
		435					440					445			
His	Glu	Tyr	Leu	Leu	Leu	Lys	Gly	Val	Glu	Ala	Val	Ala	Ile	His	Gly
	450					455					460				
Gly	Lys	Asp	Gln	Glu	Glu	Arg	Thr	Lys	Ala	Ile	Glu	Ala	Phe	Arg	Glu
465					470					475					480
Gly	Lys	Lys	Asp	Val	Leu	Val	Ala	Thr	Asp	Val	Ala	Ser	Lys	Gly	Leu
				485					490					495	
Asp	Phe	Pro	Ala	Ile	Gln	His	Val	Ile	Asn	Tyr	Asp	Met	Pro	Glu	Glu
			500					505					510		
Ile	Glu	Asn	Tyr	Val	His	Arg	Ile	Gly	Arg	Thr	Gly	Arg	Ser	Gly	Asn
		515					520					525			
Thr	Gly	Ile	Ala	Thr	Thr	Phe	Ile	Asn	Lys	Ala	Cys	Asp	Glu	Ser	Val
	530					535					540				
Leu	Met	Asp	Leu	Lys	Ala	Leu	Leu	Leu	Glu	Ala	Lys	Gln	Lys	Val	Pro
545					550					555					560
Pro	Val	Leu	Gln	Val	Leu	His	Cys	Gly	Asp	Glu	Ser	Met	Leu	Asp	Ile
				565					570					575	
Gly	Gly	Glu	Arg	Gly	Cys	Ala	Phe	Cys	Gly	Gly	Leu	Gly	His	Arg	Ile
			580					585					590		
Thr	Asp	Cys	Pro	Lys	Leu	Glu	Ala	Met	Gln	Thr	Lys	Gln	Val	Ser	Asn
		595					600					605			

000220.69462960

-4712/13211-

Ile Gly Arg Lys Asp Tyr Leu Ala His Ser Ser Met Asp Phe  
610 615 620

<210> 11252

<211> 2124

<212> DNA

<213> Homo sapiens

<400> 11252

aattaataca agtcccaggc ccaatgccta agagaccaga cgtgggcaaa gacaagtttg 60  
gatggaaagg tgttatcaca gagccctgtc cagctcctag aattcctcag gccagtgaca 120  
cttttttgct gctggccacc catgcctctg atgagaacac ttgccaattt ggccagcaga 180  
aagagagtag gccgatggtt ttcattgagcc cacaatttta gaaactctcc tagtagtact 240  
ttttctctct ccatttaaga gacaactaag gtcaaaagtt tgagccattc tcttctaccc 300  
cttcagtgtc tgaccctttc actggctctt atctgtaaac acaggggaggc aggtatggat 360  
ttttcacagt agacaatggg tcaacagcat gagtttgagg acctgctgtg aagatttctc 420  
ctccaaaata catctcatgg gcaggattct tcctgctcca tatctgtttc aattttaaga 480  
aagcaccaca tacaagacac attcagaagt cattcctgag cattgctggt gtttgcacac 540  
ttgccacctg cattaccaat tctgtaaat tcaattcctg gtggaaagt accactttga 600  
ccatggattt cccaaagaag agttcctttg cagaccatag gtggaaaagt caatgagcat 660  
ctccttcctt gccaaagcat gtcccaacat gtaacaaact ctagggatac aaaaggttta 720  
tattcagcat ctgatgtcag atgtacagtt cctccctcc catatataaa ccccggtgta 780  
gaatctgcag cgccctgctc ttcggaaacc aaggaacaag ccacctgctc acacaccttg 840  
ttcaactttt cagctcctaa ggaacccac ccccatgcaa ttgactgtg cttgagaggt 900  
gaatacagtt accttcgaga aacagaggga gctcctcacc ccgtccttcc agtccttttg 960  
gctaaaatgc ttaactatca ctcaaaaaca aatgtggaga taccaggagc tcatttgatt 1020  
cataccccaa ctttgtgttc tgaaaaacat cagagggatt ttacattgcc cagtttctcc 1080  
accaacaagc cttagggtgg acccaacct ttcgcaagt ggtaggaacg aatgcatctt 1140  
agcaattacc tgatttccaa agtccttttg tagcaaatgt cacctcattc gtggtctttt 1200  
tacctatcct aagcttatga tgatgagtta tgtatgcaa atatttatct gaagagtttc 1260  
tcctcattgt gaatgtgtat gtaaaatatg aagacaagaa aggggtgctt catctgagga 1320  
accaaggggt gagagtatcc caaaggagga caccagcatc atcttttctt cgtactccag 1380  
gacccacca tttccagtt ctgggtcatt tagagagata atggggcggt tattcccta 1440  
ttacctttgc taagtgtat attattggct gtttctcccg taacctgct gaaaaggggg 1500  
tcttagagag aactgtcatc caagcggcat tcctagtaag ttgggtagaa atgacatttt 1560  
ccagagctga aggagtgaag agcccttggc catactaggg ctctccttcc cccggggagt 1620  
gggaactcag ccacattcag aattcacatc gcctttgtta tgtccagagg agaggcataa 1680  
aaaggcactc tccccacca cccctacca atctgggttt gggttggttt tatttaacta 1740  
gcaaagttaa tccagtaatc gcaaattact ccagatgggt aaagaaaacc ctttcagaat 1800  
acagaacgag aaaactagag tttgaccaat aagaccaatt tctgccatga agaaccgggg 1860  
gacgcaagtt aattgtttta cgtactctca ttttaagcac cttctttcct gtctcttgat 1920  
tgttttttct gaaggaagt taaagaatgt ctcagctctc cttaaaggaa ctgtgaaggc 1980  
ttctctgtaa ttttaagctt attgaagtga actgaaacat tgtctaattg ctttgtggct 2040  
ttagagcttt tgttatattg tgcctataaa gcaaattatg tttacataaa aatataaata 2100  
aagtattcag catagcaaaa cctc 2124

003220.69462960

<210> 11253  
<211> 1926  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (80).. (1855)

<400> 11253

```
gaaaacagtt tactcctcct ttgctaggcc cgatgtcacc actgaaccct ttggtccaga 60
taactgtttg catttcaata tgactccaaa ctgccagtag cgtccccaga gtgtacctcc 120
ccatcacaaat aaattggagc agcaccaagt gtatgggtgcc aggtcagagc caccagcctc 180
catgggtctt cgttataaca catatgtggc cccaggaaga aacgcatctg gacaccactc 240
caagccatgc agccgggtcg agtatgtgtc ttctttgagc tcctctgtca ggaataacctg 300
ttaccccgaa gacattccac cgtaccctac catccggaga gtgcagtctc tccatgctcc 360
gccgtcttcc atgattcgc tctgttccat ttacaggaca gaagttcccc cagatgatga 420
gccagcctac tgcccaagac ctctgtacca atataagcca tatcagtcct cccaggcccg 480
ctcagattat catgtcactc agcttcagcc ttactttgag aatggccggg tccactacag 540
gtatagccca tattccagtt cttctagttc ctattacagt ccagatgggg cctgtgtgta 600
tgtggatgcc tatggcacag tccagttgag accccttcac cgccttccca atcgagactt 660
tgtttctac aatcctaggg tgcaaggaaa gagcttgtac agttatgctg gtttggctcc 720
acgtccccgg gccaacgtga ctggctatct ctctcccaac gaccataatg tagtcagcat 780
gcctccggct gctgatgtga agcacacctc cactcatgg gatcttgagg acatggaaaa 840
ataccgcatg cagtccatcc ggagagagag ccgtgctcgg cagaagggtga aagggcctgt 900
catgtcccaa tatgataaca tgaccccggc ggtgcaggac gacttgggtg ggatctatgt 960
catccatctg cgtagtaaat cagatcctgg gaaaactgga cttctctcag tggcagaagg 1020
aaaggagagc cgccatgcag ccaaggccat cagtcccgag ggagaggacc gcttctatag 1080
gaggcatccc gaggcagaga tggacagagc ccaccatcac ggaggccatg gtagcacgca 1140
gccggagaag ccatccctgc ctccagaagca gagcagcctg aggagcagga agcttcctga 1200
catgggctgc agtcttcctg agcacagggc acaccaagaa gcaagccata ggcagttctg 1260
tgagtcaaag aatgggcccc cttatcccca gggagctggc cagttagatt atgggtccaa 1320
agggattcca gacacttctg agccagtcag ctaccacaac tctggagtaa aatatgctgc 1380
atccgggcaa gaatctttaa gactgaacca caaagaggta aggctctcca aagagatgga 1440
gcgaccctgg gttaggcagc cttctgcccc agagaaacac tccagagact gctacaagga 1500
ggaagaacac ctactcagt caatcgtccc accccctaaa ccagagagga gtcatagcct 1560
caaaactccat catacccaga acgtggagag ggaccccagt gtgtgtacc agtaccaacc 1620
acacggcaag cgccagagca gtgtgactgt tgtgtcccag tatgataacc tgggaagatta 1680
ccactccctg cctcagcacc agcagaggagt ctttggaggg ggcggcatgg ggacgtatgt 1740
gccccctggc tttcccatc cacagagcag gacctatgct acagcgttgg gtcaaggggc 1800
cttctgccc gcagagttgt ccttgacgca tcctgaaaca cagatccatg cagaatgagc 1860
cctgcgagca atagagttga agcagcctct gctggacagt ggactgttct atttttttca 1920
ataacc 1926
```

<210> 11254  
<211> 592  
<212> PRT

003270 69462960



<213> Homo sapiens

<400> 11254

Met	Thr	Pro	Asn	Cys	Gln	Tyr	Arg	Pro	Gln	Ser	Val	Pro	Pro	His	His
1				5					10					15	
Asn	Lys	Leu	Glu	Gln	His	Gln	Val	Tyr	Gly	Ala	Arg	Ser	Glu	Pro	Pro
			20					25					30		
Ala	Ser	Met	Gly	Leu	Arg	Tyr	Asn	Thr	Tyr	Val	Ala	Pro	Gly	Arg	Asn
		35					40					45			
Ala	Ser	Gly	His	His	Ser	Lys	Pro	Cys	Ser	Arg	Val	Glu	Tyr	Val	Ser
	50					55					60				
Ser	Leu	Ser	Ser	Ser	Val	Arg	Asn	Thr	Cys	Tyr	Pro	Glu	Asp	Ile	Pro
	65				70					75				80	
Pro	Tyr	Pro	Thr	Ile	Arg	Arg	Val	Gln	Ser	Leu	His	Ala	Pro	Pro	Ser
				85				90						95	
Ser	Met	Ile	Arg	Ser	Val	Pro	Ile	Ser	Arg	Thr	Glu	Val	Pro	Pro	Asp
			100					105					110		
Asp	Glu	Pro	Ala	Tyr	Cys	Pro	Arg	Pro	Leu	Tyr	Gln	Tyr	Lys	Pro	Tyr
		115					120					125			
Gln	Ser	Ser	Gln	Ala	Arg	Ser	Asp	Tyr	His	Val	Thr	Gln	Leu	Gln	Pro
	130					135					140				
Tyr	Phe	Glu	Asn	Gly	Arg	Val	His	Tyr	Arg	Tyr	Ser	Pro	Tyr	Ser	Ser
	145				150					155				160	
Ser	Ser	Ser	Ser	Tyr	Tyr	Ser	Pro	Asp	Gly	Ala	Leu	Cys	Asp	Val	Asp
				165					170					175	
Ala	Tyr	Gly	Thr	Val	Gln	Leu	Arg	Pro	Leu	His	Arg	Leu	Pro	Asn	Arg
			180					185					190		
Asp	Phe	Ala	Phe	Tyr	Asn	Pro	Arg	Leu	Gln	Gly	Lys	Ser	Leu	Tyr	Ser
	195					200						205			
Tyr	Ala	Gly	Leu	Ala	Pro	Arg	Pro	Arg	Ala	Asn	Val	Thr	Gly	Tyr	Phe
	210					215					220				
Ser	Pro	Asn	Asp	His	Asn	Val	Val	Ser	Met	Pro	Pro	Ala	Ala	Asp	Val
	225				230					235				240	
Lys	His	Thr	Tyr	Thr	Ser	Trp	Asp	Leu	Glu	Asp	Met	Glu	Lys	Tyr	Arg
			245						250					255	
Met	Gln	Ser	Ile	Arg	Arg	Glu	Ser	Arg	Ala	Arg	Gln	Lys	Val	Lys	Gly
		260						265					270		
Pro	Val	Met	Ser	Gln	Tyr	Asp	Asn	Met	Thr	Pro	Ala	Val	Gln	Asp	Asp
		275					280						285		
Leu	Gly	Gly	Ile	Tyr	Val	Ile	His	Leu	Arg	Ser	Lys	Ser	Asp	Pro	Gly
	290					295					300				
Lys	Thr	Gly	Leu	Leu	Ser	Val	Ala	Glu	Gly	Lys	Glu	Ser	Arg	His	Ala
	305				310					315				320	
Ala	Lys	Ala	Ile	Ser	Pro	Glu	Gly	Glu	Asp	Arg	Phe	Tyr	Arg	Arg	His
			325						330					335	
Pro	Glu	Ala	Glu	Met	Asp	Arg	Ala	His	His	Gly	Gly	His	Gly	Ser	
		340					345					350			
Thr	Gln	Pro	Glu	Lys	Pro	Ser	Leu	Pro	Gln	Lys	Gln	Ser	Ser	Leu	Arg

0092270.69462960

-4715/13211-

	355		360		365										
Ser	Arg	Lys	Leu	Pro	Asp	Met	Gly	Cys	Ser	Leu	Pro	Glu	His	Arg	Ala
	370					375					380				
His	Gln	Glu	Ala	Ser	His	Arg	Gln	Phe	Cys	Glu	Ser	Lys	Asn	Gly	Pro
385						390					395				400
Pro	Tyr	Pro	Gln	Gly	Ala	Gly	Gln	Leu	Asp	Tyr	Gly	Ser	Lys	Gly	Ile
				405					410					415	
Pro	Asp	Thr	Ser	Glu	Pro	Val	Ser	Tyr	His	Asn	Ser	Gly	Val	Lys	Tyr
			420					425					430		
Ala	Ala	Ser	Gly	Gln	Glu	Ser	Leu	Arg	Leu	Asn	His	Lys	Glu	Val	Arg
		435					440					445			
Leu	Ser	Lys	Glu	Met	Glu	Arg	Pro	Trp	Val	Arg	Gln	Pro	Ser	Ala	Pro
	450					455					460				
Glu	Lys	His	Ser	Arg	Asp	Cys	Tyr	Lys	Glu	Glu	Glu	His	Leu	Thr	Gln
465					470					475					480
Ser	Ile	Val	Pro	Pro	Pro	Lys	Pro	Glu	Arg	Ser	His	Ser	Leu	Lys	Leu
				485					490					495	
His	His	Thr	Gln	Asn	Val	Glu	Arg	Asp	Pro	Ser	Val	Leu	Tyr	Gln	Tyr
			500					505					510		
Gln	Pro	His	Gly	Lys	Arg	Gln	Ser	Ser	Val	Thr	Val	Val	Ser	Gln	Tyr
		515					520					525			
Asp	Asn	Leu	Glu	Asp	Tyr	His	Ser	Leu	Pro	Gln	His	Gln	Arg	Gly	Val
	530					535					540				
Phe	Gly	Gly	Gly	Gly	Met	Gly	Thr	Tyr	Val	Pro	Pro	Gly	Phe	Pro	His
545					550					555					560
Pro	Gln	Ser	Arg	Thr	Tyr	Ala	Thr	Ala	Leu	Gly	Gln	Gly	Ala	Phe	Leu
				565					570					575	
Pro	Ala	Glu	Leu	Ser	Leu	Gln	His	Pro	Glu	Thr	Gln	Ile	His	Ala	Glu
			580					585					590		

<210> 11255  
<211> 2057  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (35).. (2056)

<400> 11255  
agccgagccg cgaggagcgc gctccgtggc cccgatggag cgggtacaaag ccctggaaca 60  
gctgctgaca gagttggatg acttcctcaa gattcttgac caggagaacc tgagcagcac 120  
agcactgggtg aagaagagct gcctggcgga gctcctccgg ctttacacca aaagcagcag 180  
ctctgatgag gagtacattt atatgaacaa agtgaccatc aacaagcaac agaatgcaga 240  
gtctcaaggc aaagcgccgt aggagcaggg cctgctaccc aatggggagc ccagccagca 300  
ctcctcggcc cctcagaaga gccttcaga cctcccgcca cccaagatga ttccagaacg 360  
gaaacagctt gccatcccaa agacggagtc tccagagggc tactatgaag aggctgagcc 420

09629469.072300

```

atatgacaca tccctcaatg aggacggaga ggctgtgagc agtcctacg agtcctacga 480
tgaagaggac ggcagcaagg gcaagtcggc cccttaccag tggccctcgc cggaggccgg 540
catcgagctg atgcgtgacg cccgcattctg cgccttcctg tggcgcaaga agtggctggg 600
acagtggggc aagcagctct gtgtcatcaa ggacaacagg cttctgtgct acaaatcctc 660
caaggaccac agccctcagc tggacgtgaa cctactgggc agcagcgtca ttcacaagga 720
gaagcaagtg cggaagaagg agcacaagct gaagatcaca ccgatgaatg ccgatgtgat 780
tgtgctgggc ctgcagagca aggaccaggc tgagcagtgg ctccagggtca tccaggaagt 840
gagcggcctg ccttccgaag gagcatctga aggaaccagc tacaccccg atgccagcg 900
ctttaactgc cagaaaccag atatagctga gaagtacctg tcggcttcag agtatgggag 960
ctccgtggat ggccaccctg aggtcccaga aaccaaagac gtcaagaaga aatgttctgc 1020
tggcctcaaa ctgagcaacc taatgaatct gggcaggaag aaatccacct cactggagcc 1080
tgtggagagg tccctcgaga catccagtta cctgaacgtg ctggtgaaca gccagtggaa 1140
gtctcgtctg tgctctgtca gggacaatca cctgcacttc taccaggacc ggaaccggag 1200
caagtgggc cagcaacccc tcagcctggt gggctgcgag gtggtcccag accccagccc 1260
cgaccacctc tactccttcc gcattcctcca caaggcgag gagctggcca agcttgaggc 1320
caagtcttcc gaggaaatgg gccactggct gggctcctg ctctctgagt caggctccaa 1380
gacagaccca gaagagttca cctacgacta tgtggatgcc gatagggtct cctgtattgt 1440
gagtgcggcc aaaaactctc tcttactgat gcagagaaag ttctcagagc ccaacactta 1500
catcgatggc ctgcctagcc aggaccgcca ggaggagctg tatgacgacg tggacctgtc 1560
agagctcaca gctgcggtgg agcctaccga ggaagccacc cctgttgacg atgacccaaa 1620
tgagagagaa tctgaccggg tgtacctgga cctcacacct gtcaagtcct ttctgcatgg 1680
ccccagcagt gcacaggccc aggcctcctc ccgcagcttg tctgcctgg acgatgcaac 1740
tgaggccctc ccggcagact caggcccagg tcccacccca gatgagccct gcataaagt 1800
tccagagaac ctgggagaac agctggagag tttggagcca gagtatcctt ccctgagaat 1860
caccaccgtc aaaatccaga cggaacagca gagaatctcc ttcccaccga gctgcccgga 1920
tgccgtggtg gccacccac ctggtgccag cccacctgtg aaggacaggt tgcgcgtgac 1980
cagtgcagag atcaagcttg gcaagaatcg gacagaagct gaggtgaagc ggtacacaga 2040
ggagaaggag aggcttg                                     2057

```

<210> 11256

<211> 674

<212> PRT

<213> Homo sapiens

<400> 11256

```

Met Glu Arg Tyr Lys Ala Leu Glu Gln Leu Leu Thr Glu Leu Asp Asp
 1             5             10            15
Phe Leu Lys Ile Leu Asp Gln Glu Asn Leu Ser Ser Thr Ala Leu Val
          20            25            30
Lys Lys Ser Cys Leu Ala Glu Leu Arg Leu Tyr Thr Lys Ser Ser
          35            40            45
Ser Ser Asp Glu Glu Tyr Ile Tyr Met Asn Lys Val Thr Ile Asn Lys
          50            55            60
Gln Gln Asn Ala Glu Ser Gln Gly Lys Ala Pro Glu Glu Gln Gly Leu
          65            70            75            80
Leu Pro Asn Gly Glu Pro Ser Gln His Ser Ser Ala Pro Gln Lys Ser
          85            90            95

```

-4717/13211-

Leu	Pro	Asp	Leu	Pro	Pro	Pro	Lys	Met	Ile	Pro	Glu	Arg	Lys	Gln	Leu
			100					105					110		
Ala	Ile	Pro	Lys	Thr	Glu	Ser	Pro	Glu	Gly	Tyr	Tyr	Glu	Glu	Ala	Glu
		115					120					125			
Pro	Tyr	Asp	Thr	Ser	Leu	Asn	Glu	Asp	Gly	Glu	Ala	Val	Ser	Ser	Ser
	130					135					140				
Tyr	Glu	Ser	Tyr	Asp	Glu	Glu	Asp	Gly	Ser	Lys	Gly	Lys	Ser	Ala	Pro
145					150					155					160
Tyr	Gln	Trp	Pro	Ser	Pro	Glu	Ala	Gly	Ile	Glu	Leu	Met	Arg	Asp	Ala
				165					170					175	
Arg	Ile	Cys	Ala	Phe	Leu	Trp	Arg	Lys	Trp	Leu	Gly	Gln	Trp	Ala	
			180					185					190		
Lys	Gln	Leu	Cys	Val	Ile	Lys	Asp	Asn	Arg	Leu	Leu	Cys	Tyr	Lys	Ser
		195					200					205			
Ser	Lys	Asp	His	Ser	Pro	Gln	Leu	Asp	Val	Asn	Leu	Leu	Gly	Ser	Ser
	210					215					220				
Val	Ile	His	Lys	Glu	Lys	Gln	Val	Arg	Lys	Lys	Glu	His	Lys	Leu	Lys
225					230					235					240
Ile	Thr	Pro	Met	Asn	Ala	Asp	Val	Ile	Val	Leu	Gly	Leu	Gln	Ser	Lys
				245					250					255	
Asp	Gln	Ala	Glu	Gln	Trp	Leu	Arg	Val	Ile	Gln	Glu	Val	Ser	Gly	Leu
			260					265					270		
Pro	Ser	Glu	Gly	Ala	Ser	Glu	Gly	Asn	Gln	Tyr	Thr	Pro	Asp	Ala	Gln
		275					280						285		
Arg	Phe	Asn	Cys	Gln	Lys	Pro	Asp	Ile	Ala	Glu	Lys	Tyr	Leu	Ser	Ala
	290					295					300				
Ser	Glu	Tyr	Gly	Ser	Ser	Val	Asp	Gly	His	Pro	Glu	Val	Pro	Glu	Thr
305					310					315					320
Lys	Asp	Val	Lys	Lys	Lys	Cys	Ser	Ala	Gly	Leu	Lys	Leu	Ser	Asn	Leu
				325					330					335	
Met	Asn	Leu	Gly	Arg	Lys	Lys	Ser	Thr	Ser	Leu	Glu	Pro	Val	Glu	Arg
		340						345					350		
Ser	Leu	Glu	Thr	Ser	Ser	Tyr	Leu	Asn	Val	Leu	Val	Asn	Ser	Gln	Trp
	355						360					365			
Lys	Ser	Arg	Trp	Cys	Ser	Val	Arg	Asp	Asn	His	Leu	His	Phe	Tyr	Gln
	370					375					380				
Asp	Arg	Asn	Arg	Ser	Lys	Val	Ala	Gln	Gln	Pro	Leu	Ser	Leu	Val	Gly
385					390					395					400
Cys	Glu	Val	Val	Pro	Asp	Pro	Ser	Pro	Asp	His	Leu	Tyr	Ser	Phe	Arg
				405					410					415	
Ile	Leu	His	Lys	Gly	Glu	Glu	Leu	Ala	Lys	Leu	Glu	Ala	Lys	Ser	Ser
			420					425					430		
Glu	Glu	Met	Gly	His	Trp	Leu	Gly	Leu	Leu	Leu	Ser	Glu	Ser	Gly	Ser
	435						440					445			
Lys	Thr	Asp	Pro	Glu	Glu	Phe	Thr	Tyr	Asp	Tyr	Val	Asp	Ala	Asp	Arg
	450					455					460				
Val	Ser	Cys	Ile	Val	Ser	Ala	Ala	Lys	Asn	Ser	Leu	Leu	Leu	Met	Gln
465					470					475					480

00629469.072800

Arg Lys Phe Ser Glu Pro Asn Thr Tyr Ile Asp Gly Leu Pro Ser Gln  
485 490 495  
Asp Arg Gln Glu Glu Leu Tyr Asp Asp Val Asp Leu Ser Glu Leu Thr  
500 505 510  
Ala Ala Val Glu Pro Thr Glu Glu Ala Thr Pro Val Ala Asp Asp Pro  
515 520 525  
Asn Glu Arg Glu Ser Asp Arg Val Tyr Leu Asp Leu Thr Pro Val Lys  
530 535 540  
Ser Phe Leu His Gly Pro Ser Ser Ala Gln Ala Gln Ala Ser Ser Pro  
545 550 555 560  
Thr Leu Ser Cys Leu Asp Asp Ala Thr Glu Ala Leu Pro Ala Asp Ser  
565 570 575  
Gly Pro Gly Pro Thr Pro Asp Glu Pro Cys Ile Lys Cys Pro Glu Asn  
580 585 590  
Leu Gly Glu Gln Leu Glu Ser Leu Glu Pro Glu Tyr Pro Ser Leu Arg  
595 600 605  
Ile Thr Thr Val Lys Ile Gln Thr Glu Gln Gln Arg Ile Ser Phe Pro  
610 615 620  
Pro Ser Cys Pro Asp Ala Val Val Ala Thr Pro Pro Gly Ala Ser Pro  
625 630 635 640  
Pro Val Lys Asp Arg Leu Arg Val Thr Ser Ala Glu Ile Lys Leu Gly  
645 650 655  
Lys Asn Arg Thr Glu Ala Glu Val Lys Arg Tyr Thr Glu Glu Lys Glu  
660 665 670  
Arg Leu

<210> 11257  
<211> 2386  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (9).. (1262)

<400> 11257  
ctccgggcat ggacccgata gcctcggctc tgcgcacgcc catctccatc accagctcct 60  
atgcggcgcc cttcgccatg atgagccacc atgagatgaa cggctccctc accagtcctg 120  
gcgcctacgc cggcctccac aacatcccac cccagatgag cgcgcgcgcc gctgctgcag 180  
ccgctgccta tggccgatcg ccaatggttg gttttgacct tcaccccccg atgcggggcca 240  
caggcctccc ctcaagcctg gcctccattc ctggaggaaa accagcgtac tcattccatg 300  
tgagtgtga tgggcagatg cagcccgtgc ccttccccca cgacgccctg gcaggccccg 360  
gcaccccagag gcacgcccgg cagatcaaca cactcagcca cggggagggtg gtgtgtgccg 420  
tgaccatcag caaccccacg aggcacgtct acacagggtg caagggctgc gtgaagatct 480  
gggacatcag ccagccaggc agcaagagcc ccatctccca gctggactgc ctgaacaggg 540  
acaattacat ccgctcctgc aagctgctcc ctgatgggcg cagctccatc gtgggcggcg 600

00920459.072800

```

aggccagcac gctcaccatc tgggacctgg cctcgcccac gccccgcac aaggccgagc 660
tgacgtcctc ggctcccgcc tgttatgccc tggccattag ccctgacgcc aaagtctgct 720
tctcctgctg cagcgatggg aacattgctg totgggacct gcacaaccag accctgggtca 780
ggcagttcca gggccacaca gatggggcca gotgcataga catctcccat gatggcacca 840
aactgtggac agggggcctg gacaacacgg tgcgtcctg ggacctgcgg gagggccgac 900
agctacagca gcatgacttc acttcccaga tcttctcgct gggctactgc cccactgggg 960
agtggctggc tgtgggcatg gagagcagca acgtggagggt gctgcaccac atcaagcctg 1020
acaagtacca gctgcacctg caccgagagt gcgtgctctc cctcaagtgc gcctactgcg 1080
gcaagtgggt cgtgagcact gggaaagata acctctccta cgcttgagg acgccttatg 1140
gagccagcat attccagtct aaagaatcct cgtctgtctt gatttgtgac atttcagcgg 1200
atgacaaata cattgtaaca ggctctgggtg acaagaaggc cacagtttat gaggtcatct 1260
actaaacaag aactccagca gggctgtcaa actctgggag aaaccgactc ggctctgaca 1320
gggagacccc caggcgaggg gccccgagga tggcggagga tgggcccgcag gcagccgagc 1380
gttcagggct gcgtccggc cggctgagag ggacagtgcc ccgtcacagt ctggactcct 1440
gggcctggat tgatgtgtct cacagactcg gaagggttct gctcctcctc ctccccctga 1500
acaatgttgg cagttgctac aaatagattt attggaggct tatggctccg gttccccac 1560
agaccgcctc atgagtctct gtttgttctt cccttttctt ttgccctgtc cctcaccttg 1620
ggtcgggggt gctggagtgg accacaatgt tgtgctgggg gatggggggg tctctctttg 1680
ccgattgtgc agtgcacaag atttgtgaaa aatgtaaaata acagactcct attgcggact 1740
gatcagtggg agaggaggcc ccttcccacc ggaaaactct agtgtgtatt tcgcctgctg 1800
tatttgaat ccactcgtgg tgggtggcttt tttttttttt tttttttaaa taaacagatg 1860
ctctcacctg ggaagaggag acagggaggg gaaccaattg aagaaaggag agaaaagtct 1920
tagagtgtgg aaaaggcaac caggttggcc gtaagggtgc tgcgtggaatg cgtgtgcctc 1980
cacacgggtc tgggcatccg gactgataac cagccggcca gactgaggga tggaaggcac 2040
tgagatgggg gcccgctccag gcggacaccc gcagaaatgg agctttctgt ggtctcttgc 2100
actctggctg cctcttgccc tctctgtgtc tctctttctt ggtctctccc tctctcctcc 2160
tcagccaggt ctttctcttt ggtgcacact tagtcattgt tgtgagcaat ggaagttaa 2220
aggaactccc tctccagctc ttctgaatct tgggacacag cctaaaaagg acaaaaagtt 2280
agaagacagc atagcaactc agctcaggga gctaccagag aaaaatagca actgatgtgg 2340
gtgctttttt tttttttttt aatttgaata aaaagaatta gaagtg 2386

```

<210> 11258  
 <211> 418  
 <212> PRT  
 <213> Homo sapiens

<400> 11258

Met	Asp	Pro	Ile	Ala	Ser	Ala	Leu	Arg	Thr	Pro	Ile	Ser	Ile	Thr	Ser
1				5					10					15	
Ser	Tyr	Ala	Ala	Pro	Phe	Ala	Met	Met	Ser	His	His	Glu	Met	Asn	Gly
		20						25					30		
Ser	Leu	Thr	Ser	Pro	Gly	Ala	Tyr	Ala	Gly	Leu	His	Asn	Ile	Pro	Pro
		35				40						45			
Gln	Met	Ser	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Tyr	Gly	Arg	Ser
	50				55					60					
Pro	Met	Val	Gly	Phe	Asp	Pro	His	Pro	Pro	Met	Arg	Ala	Thr	Gly	Leu
65					70					75					80

-4720/13211-

Pro Ser Ser Leu Ala Ser Ile Pro Gly Gly Lys Pro Ala Tyr Ser Phe  
85 90 95  
His Val Ser Ala Asp Gly Gln Met Gln Pro Val Pro Phe Pro His Asp  
100 105 110  
Ala Leu Ala Gly Pro Gly Ile Pro Arg His Ala Arg Gln Ile Asn Thr  
115 120 125  
Leu Ser His Gly Glu Val Val Cys Ala Val Thr Ile Ser Asn Pro Thr  
130 135 140  
Arg His Val Tyr Thr Gly Gly Lys Gly Cys Val Lys Ile Trp Asp Ile  
145 150 155 160  
Ser Gln Pro Gly Ser Lys Ser Pro Ile Ser Gln Leu Asp Cys Leu Asn  
165 170 175  
Arg Asp Asn Tyr Ile Arg Ser Cys Lys Leu Leu Pro Asp Gly Arg Thr  
180 185 190  
Leu Ile Val Gly Gly Glu Ala Ser Thr Leu Thr Ile Trp Asp Leu Ala  
195 200 205  
Ser Pro Thr Pro Arg Ile Lys Ala Glu Leu Thr Ser Ser Ala Pro Ala  
210 215 220  
Cys Tyr Ala Leu Ala Ile Ser Pro Asp Ala Lys Val Cys Phe Ser Cys  
225 230 235 240  
Cys Ser Asp Gly Asn Ile Ala Val Trp Asp Leu His Asn Gln Thr Leu  
245 250 255  
Val Arg Gln Phe Gln Gly His Thr Asp Gly Ala Ser Cys Ile Asp Ile  
260 265 270  
Ser His Asp Gly Thr Lys Leu Trp Thr Gly Gly Leu Asp Asn Thr Val  
275 280 285  
Arg Ser Trp Asp Leu Arg Glu Gly Arg Gln Leu Gln Gln His Asp Phe  
290 295 300  
Thr Ser Gln Ile Phe Ser Leu Gly Tyr Cys Pro Thr Gly Glu Trp Leu  
305 310 315 320  
Ala Val Gly Met Glu Ser Ser Asn Val Glu Val Leu His His Ile Lys  
325 330 335  
Pro Asp Lys Tyr Gln Leu His Leu His Glu Ser Cys Val Leu Ser Leu  
340 345 350  
Lys Phe Ala Tyr Cys Gly Lys Trp Phe Val Ser Thr Gly Lys Asp Asn  
355 360 365  
Leu Leu Asn Ala Trp Arg Thr Pro Tyr Gly Ala Ser Ile Phe Gln Ser  
370 375 380  
Lys Glu Ser Ser Ser Val Leu Ser Cys Asp Ile Ser Ala Asp Asp Lys  
385 390 395 400  
Tyr Ile Val Thr Gly Ser Gly Asp Lys Lys Ala Thr Val Tyr Glu Val  
405 410 415  
Ile Tyr

<210> 11259

<211> 2024

009270.694290

<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (32).. (850)

<400> 11259

```

ttattatgct tctggatccg aatttgatga gatgtttgtg ggtgtgggag ccagccgtat 60
cagaaatctt tttagggaag caaaggcgaa tgctccttgt gttatatatta ttgatgaatt 120
agattctgtt ggtgggaaga gaattgaatc tccaatgcac ccatattcaa ggcagaccat 180
aaatcaactt cttgctgaaa tggatgggtt taaacccaat gaaggagtta tcataatagg 240
agccacaaac ttcccagagg cattagataa tgcccttaata cgtcctggtc gttttgactt 300
gcaagttaca gttccaaggc cagatgtaaa aggtcgaaca gaaattttga aatggatatc 360
caataaaata aagtttgatc aatccgttga tccagaaatt atagctcgag gtactgttgg 420
cttttcggga gcagagttgg agaactctgt gaaccaggct gcattaaaag cagctgttga 480
tggaagaa atggtttacca tgaaggagct ggagttttcc aaagacaaaa ttctaattgg 540
gcctgaaaga agaagtgtgg aaattgataa caaaaacaaa accatcacag catatcatga 600
atctggtcat gccattattg catattacac aaaagatgca atgcctatca acaaagctac 660
aatcatgcca cgggggcca cacttggaca tgtgtccctg ttacctgaga atgacggatg 720
gaatgaaata gagcccagct gcttgcacaa atggatgtta gtatgggagg aagagtggca 780
gaggagctta tatttggaa cagaccatatt acaacagggtg cttccagtga ttttgataat 840
gccactaaaa tagcaaagcg gatggttacc aaatttggaa tgagtgaata gcttggagtt 900
atgacctaca gtgatacagg gaaactaagt ccagaaaccc aatctgccat cgaacaagaa 960
ataagaatcc ttctaaggga ctcatatgaa cgagcaaaac atatcttgaa aactcatgca 1020
aaggagcata agaactctgc agaagcttta ttgacctatg agactttgga tgccaaagag 1080
attcaaattg ttcttgaggg gaaaaagttg gaagttagat gataactctc ttgatattga 1140
tgcttgctgg ttttattgca agaataaag tagcattgca gtagtctact tttacaacgc 1200
tttccctca ttcttgatgt ggtgtaatg aagggtgtga aatgctttgt caatatttgt 1260
cacatttatc cagtttgggt tattctcatt atgacacctt ttgcaaatta gcatcccatg 1320
gcaaatatat tttgaaaaaa taaagaacta tcaggattga aaacagctct tttgaggaat 1380
gtcaattagt tattaagttg aaagtaatta atgattttat gtttggttac tctactagat 1440
ttgataaaaa ttgtgccttt agccttctat atacatcagt ggaaacttaa gatgcagtaa 1500
ttatgttcca gattgaccat gaataaaata ttttttaatc taaatgtaga gaagtgtgga 1560
ttaaaagcag tctcggaac acagagccag gaatatagcc ttttggcatg gtgccatggc 1620
tcacatctgt aatcccagca cttttggagg ctgaggoggg tggattgctt gaggccagga 1680
gttcgagacc agcctggcca acgttgtgaa acgctgtctc tactaaaata caaaaaata 1740
gggctgggag cggttgctca cgcctgtaat ccagcactt ttcagaggcc aaggcgggca 1800
aatcacctga ggtcaagagt ttgagaccag cctggccaac atggtgaaac cccatctcta 1860
ctaaacatgc aaaaattacc tgggcatggt ggcagggtgct tataatccca gctactctgg 1920
gggccaaggc aggagaattg cttgagcctg ggagatggag gttgcagtga gctgagatca 1980
tgccactgca ctccagcctg ggcaacagag caagactctg cctc 2024

```

<210> 11260  
<211> 273  
<212> PRT  
<213> Homo sapiens

09629469.072800



-4722/13211-

<400> 11260

Met Phe Val Gly Val Gly Ala Ser Arg Ile Arg Asn Leu Phe Arg Glu  
1 5 10 15  
Ala Lys Ala Asn Ala Pro Cys Val Ile Phe Ile Asp Glu Leu Asp Ser  
20 25 30  
Val Gly Gly Lys Arg Ile Glu Ser Pro Met His Pro Tyr Ser Arg Gln  
35 40 45  
Thr Ile Asn Gln Leu Leu Ala Glu Met Asp Gly Phe Lys Pro Asn Glu  
50 55 60  
Gly Val Ile Ile Ile Gly Ala Thr Asn Phe Pro Glu Ala Leu Asp Asn  
65 70 75 80  
Ala Leu Ile Arg Pro Gly Arg Phe Asp Leu Gln Val Thr Val Pro Arg  
85 90 95  
Pro Asp Val Lys Gly Arg Thr Glu Ile Leu Lys Trp Tyr Leu Asn Lys  
100 105 110  
Ile Lys Phe Asp Gln Ser Val Asp Pro Glu Ile Ile Ala Arg Gly Thr  
115 120 125  
Val Gly Phe Ser Gly Ala Glu Leu Glu Asn Leu Val Asn Gln Ala Ala  
130 135 140  
Leu Lys Ala Ala Val Asp Gly Lys Glu Met Val Thr Met Lys Glu Leu  
145 150 155 160  
Glu Phe Ser Lys Asp Lys Ile Leu Met Gly Pro Glu Arg Arg Ser Val  
165 170 175  
Glu Ile Asp Asn Lys Asn Lys Thr Ile Thr Ala Tyr His Glu Ser Gly  
180 185 190  
His Ala Ile Ile Ala Tyr Tyr Thr Lys Asp Ala Met Pro Ile Asn Lys  
195 200 205  
Ala Thr Ile Met Pro Arg Gly Pro Thr Leu Gly His Val Ser Leu Leu  
210 215 220  
Pro Glu Asn Asp Gly Trp Asn Glu Ile Glu Pro Ser Cys Leu His Lys  
225 230 235 240  
Trp Met Leu Val Trp Glu Glu Glu Trp Gln Arg Ser Leu Tyr Leu Glu  
245 250 255  
Pro Thr Ile Leu Gln Gln Val Leu Pro Val Ile Leu Ile Met Pro Leu  
260 265 270  
Lys

<210> 11261

<211> 1827

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (137).. (1393)

09629469.072800

<400> 11261

```

atgtcaatgt gtctgtcctt cactcctcca ttgtotgccg ccaactgctgc tgctgctgct 60
gctgccgctg ctgctgcacg aatcgccgca gccccagcc ttgcgcgtcg tcgctacctc 120
ctcggacaga aattttatga ataagcatca gaagccagtgc ctaacaggcc agcggttcaa 180
aactcggaag agggatgaaa aagagaaatt cgaaccacac gtcttcaggg atacacttgt 240
ccaggggctt aatgaggctg gtgatgacct tgaagctgta gccaaatttc tggactctac 300
aggctcaaga ttagattatc gtcgctatgc agacacactc ttcgatatcc tgggtggctgg 360
cagtatgctt gcccttgag gaacgcgcac agatgatggt gacaagacca agatgaccaa 420
ccactgtgtg ttttcagcaa atgaagatca tgaaccatc cgaaactatg ctgaggtctt 480
caataaactc atcaggagat ataagtattt ggagaaggca tttgaagatg aaatgaaaaa 540
gcttctcctc ttctttaaag ccttttcgca aacagagcag acaaagtgtg cgatgctgtc 600
ggggattctg ctgggcaatg gcacctgccc cgccaccatc ctccaccagtc tcttcaccga 660
cagcttagtc aaagaaggca ttgcggcctc atttgctgtc aagcttttca aagcatggat 720
ggcagaaaaa gatgccaact ctgttacctc gtctttgaga agagccaact tagacaagag 780
gctgcttgaa ctctttccag ttaacagaca gagtgtggat cattttgcta aatacttcac 840
tgacgcaggt cttaggagc tttccgactt cctccagatc cagcagtcct tgggcaccag 900
gaaggaaactc cagaaggagc tccaggagcg tctttctcag gaatgcccga tcaaggaggt 960
ggtgctttat gtcaaagaag aaatgaagag gaatgatctt ccagaaacag cagtgtttgg 1020
tcttctgttg acatgtataa tgaacgctgt tgagtggaa aagaaggaa aacttgttgc 1080
agagcaggct ctgaagcacc tgaagcaata tgctcccctg ctggccgtgt tcagctccca 1140
aggccagtca gagctgatcc tcctccagaa ggttcaggaa tactgctacg acaacatcca 1200
tttcatgaaa gcctttcaga agattgtggt tctcttttat aaagctgatg ttctgagcga 1260
agaagcaata ctgaaatggt ataaggaagc acatgttgct aaaggcaaaa gtgtttttct 1320
tgaccagatg aagaaatttg ttgagtgggt acaaaatgca gaagaagaat ccgaatcgga 1380
aggtgaggaa aattaaatgg ctcaacaagc acaataccta ggttaccaca caccactttt 1440
tgattgggaa tgctgaacca tttgagaaga gaaacttggc ttctgttttc gcaaaggaaa 1500
aaaaaaatag gataggcttc ccttgtgcag agggagaaat ggttttgttt ttgttttgtt 1560
tttaaatgga gccctgaggc atcagctatt atacttggga ctctacctct cactcactat 1620
atgctaactt aaagccattc aacaaggagt caagtagatc tgaattataa tactcaacag 1680
actcctcctt ttttagctgt atttttcagg tactgtgtgg tgaccgcccc actggtgtct 1740
attacaggcc actttgtag ttgtgtatct gctcatgtat gtgatttgac aaaccagttt 1800
tttaaaataa atggcttttt aaaaatc 1827

```

<210> 11262

<211> 419

<212> PRT

<213> Homo sapiens

<400> 11262

```

Met Asn Lys His Gln Lys Pro Val Leu Thr Gly Gln Arg Phe Lys Thr
  1             5             10            15
Arg Lys Arg Asp Glu Lys Glu Lys Phe Glu Pro Thr Val Phe Arg Asp
          20             25             30
Thr Leu Val Gln Gly Leu Asn Glu Ala Gly Asp Asp Leu Glu Ala Val
          35             40             45
Ala Lys Phe Leu Asp Ser Thr Gly Ser Arg Leu Asp Tyr Arg Arg Tyr

```

09629469.072800

50	55	60			
Ala Asp Thr Leu Phe Asp Ile Leu Val Ala Gly Ser Met Leu Ala Pro					
65	70	75			80
Gly Gly Thr Arg Ile Asp Asp Gly Asp Lys Thr Lys Met Thr Asn His					
	85	90			95
Cys Val Phe Ser Ala Asn Glu Asp His Glu Thr Ile Arg Asn Tyr Ala					
	100	105			110
Gln Val Phe Asn Lys Leu Ile Arg Arg Tyr Lys Tyr Leu Glu Lys Ala					
	115	120			125
Phe Glu Asp Glu Met Lys Lys Leu Leu Leu Phe Leu Lys Ala Phe Ser					
	130	135			140
Glu Thr Glu Gln Thr Lys Leu Ala Met Leu Ser Gly Ile Leu Leu Gly					
	145	150			155
Asn Gly Thr Leu Pro Ala Thr Ile Leu Thr Ser Leu Phe Thr Asp Ser					
	165	170			175
Leu Val Lys Glu Gly Ile Ala Ala Ser Phe Ala Val Lys Leu Phe Lys					
	180	185			190
Ala Trp Met Ala Glu Lys Asp Ala Asn Ser Val Thr Ser Ser Leu Arg					
	195	200			205
Arg Ala Asn Leu Asp Lys Arg Leu Leu Glu Leu Phe Pro Val Asn Arg					
	210	215			220
Gln Ser Val Asp His Phe Ala Lys Tyr Phe Thr Asp Ala Gly Leu Lys					
	225	230			235
Glu Leu Ser Asp Phe Leu Arg Val Gln Gln Ser Leu Gly Thr Arg Lys					
	245	250			255
Glu Leu Gln Lys Glu Leu Gln Glu Arg Leu Ser Gln Glu Cys Pro Ile					
	260	265			270
Lys Glu Val Val Leu Tyr Val Lys Glu Glu Met Lys Arg Asn Asp Leu					
	275	280			285
Pro Glu Thr Ala Val Ile Gly Leu Leu Trp Thr Cys Ile Met Asn Ala					
	290	295			300
Val Glu Trp Asn Lys Lys Glu Glu Leu Val Ala Glu Gln Ala Leu Lys					
	305	310			315
His Leu Lys Gln Tyr Ala Pro Leu Leu Ala Val Phe Ser Ser Gln Gly					
	325	330			335
Gln Ser Glu Leu Ile Leu Leu Gln Lys Val Gln Glu Tyr Cys Tyr Asp					
	340	345			350
Asn Ile His Phe Met Lys Ala Phe Gln Lys Ile Val Val Leu Phe Tyr					
	355	360			365
Lys Ala Asp Val Leu Ser Glu Glu Ala Ile Leu Lys Trp Tyr Lys Glu					
	370	375			380
Ala His Val Ala Lys Gly Lys Ser Val Phe Leu Asp Gln Met Lys Lys					
	385	390			395
Phe Val Glu Trp Leu Gln Asn Ala Glu Glu Ser Glu Ser Glu Gly					
	405	410			415
Glu Glu Asn					

09629469.072300

<210> 11263  
<211> 1833  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (34).. (1335)

<400> 11263  
ttatttgcta attgcacaga cgataacatc tacatgttta atatgactgg gttgaagact 60  
tctccagtgg ctattttcaa tggacaccag aactctacct tttatgtaaa atccagcctt 120  
agtccagatg accagttttt agtcagtggc tcaagtgatg aagctgccta catatggaag 180  
gtctccacac cctggcaacc tcctactgtg ctcttggttc attctcaaga ggtcacgtct 240  
gtgtgctggt gtccatctga cttcacaaaag attgctacct gttctgatga caatacacta 300  
aaaatctggc gcttgaatag aggcttagag gagaaaccag gaggtgataa actttccacg 360  
gtgggttggg cctctcagaa gaaaaaagag tcaagacctg gcctagtaac agtaacgagt 420  
agccagagta ctcttgccaa agcccccagg gtaaaagtga atccatccaa ttcttccccg 480  
tcacccgcag cttgtgcccc aagctgtgct ggagacctcc ctcttccttc aaatactcct 540  
acgttctcta ttaaaaccto tcctgccaag gcccggtctc ccatcaacag aagaggctct 600  
gtctcctccg tctctcccaa gccaccttca totttcaaga tgtcgattag aaactgggtg 660  
acccgaacac cttcctcatc accacccatc actccacctg cttcggagac caagatcatg 720  
tctccgagaa aagcccttat tcctgtgagc cagaagtcac cccaagcaga ggcttgctct 780  
gagtctagaa atagagtaaa gaggaggcta gactcaagct gtctggagag tgtgaaacaa 840  
aagtgtgtga agagttgtaa ctgtgtgact gagcttgatg gccaaagtga aaatcttcat 900  
ttggatctgt gctgccttgc tggtaaccag gaagacctta gtaaggactc tctaggtcct 960  
accaaatcaa gcaaaattga aggagctggt accagtatct cagagcctcc gtctcctatc 1020  
agtccgtatg cttcagaaag ctgttggaacg ctacctcttc ctttgagacc ttgtggagaa 1080  
gggtctgaaa tggtaggcaa agagaatagt tcccagaga ataaaaactg gttgttggcc 1140  
atggcagcca aacggaaggc tgagaatcca tctccacgaa gtccgtcatc ccagacaccc 1200  
aattccagga gacagagcgg aaagacattg ccaagcccg taccatcac gccagctcc 1260  
atgaggaaaa tctgcacata cttccataga aagtcccagg aggacttctg tggctctgaa 1320  
cactcaacag aattatagat tctaattctga gtgagttact gagctttggt ccactaaaac 1380  
aagctgagct ttggtccact aaaacaagat gaaaaataca agagtgactc tataactctg 1440  
gtctttaaga aagctgcctt ttcattttta gacaaaatct tttcaacgct gaaatgtacc 1500  
taatctggtt ctactaccat aatgtatatg cagcttcccg aggatgaatg ctgtgtttta 1560  
atttcataaa gtaaatttgt cactctagca ttttgaatga atagtcttca ctttttaa 1620  
tattcatctt ctctataata atgacatccc agttcatgga ggcaaaaaac aagtttcttg 1680  
ttatcctgaa actttctatg ctcatgtgaa agtatctgcc agccacagca tgaggcctgt 1740  
gaaggctgac tgagaaatcc tctgctgaag acccctgggt ctgttctgcc tccaacatgt 1800  
ataattttat ttgaaatata taatcttttc act 1833

<210> 11264  
<211> 434  
<212> PRT  
<213> Homo sapiens

0032/0.69462960

<400> 11264

Met	Phe	Asn	Met	Thr	Gly	Leu	Lys	Thr	Ser	Pro	Val	Ala	Ile	Phe	Asn
1				5					10					15	
Gly	His	Gln	Asn	Ser	Thr	Phe	Tyr	Val	Lys	Ser	Ser	Leu	Ser	Pro	Asp
			20					25					30		
Asp	Gln	Phe	Leu	Val	Ser	Gly	Ser	Ser	Asp	Glu	Ala	Ala	Tyr	Ile	Trp
		35					40					45			
Lys	Val	Ser	Thr	Pro	Trp	Gln	Pro	Pro	Thr	Val	Leu	Leu	Gly	His	Ser
	50					55					60				
Gln	Glu	Val	Thr	Ser	Val	Cys	Trp	Cys	Pro	Ser	Asp	Phe	Thr	Lys	Ile
65					70					75					80
Ala	Thr	Cys	Ser	Asp	Asn	Thr	Leu	Lys	Ile	Trp	Arg	Leu	Asn	Arg	
				85				90					95		
Gly	Leu	Glu	Glu	Lys	Pro	Gly	Gly	Asp	Lys	Leu	Ser	Thr	Val	Gly	Trp
			100					105					110		
Ala	Ser	Gln	Lys	Lys	Lys	Glu	Ser	Arg	Pro	Gly	Leu	Val	Thr	Val	Thr
		115					120					125			
Ser	Ser	Gln	Ser	Thr	Pro	Ala	Lys	Ala	Pro	Arg	Val	Lys	Cys	Asn	Pro
	130					135					140				
Ser	Asn	Ser	Ser	Pro	Ser	Ser	Ala	Ala	Cys	Ala	Pro	Ser	Cys	Ala	Gly
145					150					155					160
Asp	Leu	Pro	Leu	Pro	Ser	Asn	Thr	Pro	Thr	Phe	Ser	Ile	Lys	Thr	Ser
				165					170					175	
Pro	Ala	Lys	Ala	Arg	Ser	Pro	Ile	Asn	Arg	Arg	Gly	Ser	Val	Ser	Ser
			180					185					190		
Val	Ser	Pro	Lys	Pro	Pro	Ser	Ser	Phe	Lys	Met	Ser	Ile	Arg	Asn	Trp
		195					200					205			
Val	Thr	Arg	Thr	Pro	Ser	Ser	Ser	Pro	Pro	Ile	Thr	Pro	Pro	Ala	Ser
	210					215					220				
Glu	Thr	Lys	Ile	Met	Ser	Pro	Arg	Lys	Ala	Leu	Ile	Pro	Val	Ser	Gln
225					230					235					240
Lys	Ser	Ser	Gln	Ala	Glu	Ala	Cys	Ser	Glu	Ser	Arg	Asn	Arg	Val	Lys
			245						250					255	
Arg	Arg	Leu	Asp	Ser	Ser	Cys	Leu	Glu	Ser	Val	Lys	Gln	Lys	Cys	Val
		260						265					270		
Lys	Ser	Cys	Asn	Cys	Val	Thr	Glu	Leu	Asp	Gly	Gln	Val	Glu	Asn	Leu
		275					280					285			
His	Leu	Asp	Leu	Cys	Cys	Leu	Ala	Gly	Asn	Gln	Glu	Asp	Leu	Ser	Lys
	290					295					300				
Asp	Ser	Leu	Gly	Pro	Thr	Lys	Ser	Ser	Lys	Ile	Glu	Gly	Ala	Gly	Thr
305					310					315					320
Ser	Ile	Ser	Glu	Pro	Pro	Ser	Pro	Ile	Ser	Pro	Tyr	Ala	Ser	Glu	Ser
				325					330					335	
Cys	Gly	Thr	Leu	Pro	Leu	Pro	Leu	Arg	Pro	Cys	Gly	Glu	Gly	Ser	Glu
			340					345					350		
Met	Val	Gly	Lys	Glu	Asn	Ser	Ser	Pro	Glu	Asn	Lys	Asn	Trp	Leu	Leu
		355					360					365			

0002270169462960

Ala Met Ala Ala Lys Arg Lys Ala Glu Asn Pro Ser Pro Arg Ser Pro  
 370 375 380  
 Ser Ser Gln Thr Pro Asn Ser Arg Arg Gln Ser Gly Lys Thr Leu Pro  
 385 390 395 400  
 Ser Pro Val Thr Ile Thr Pro Ser Ser Met Arg Lys Ile Cys Thr Tyr  
 405 410 415  
 Phe His Arg Lys Ser Gln Glu Asp Phe Cys Gly Pro Glu His Ser Thr  
 420 425 430  
 Glu Leu

<210> 11265  
 <211> 2157  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (35).. (1909)

<400> 11265  
 ttatgatatt aaccagatca tttctacagc tgtaatgacc tatacgaagc actttgatgc 60  
 tcatggccgt atcaaggaga ttcaatatga gatattcagg tcgctcatgt actggattac 120  
 aattcagtat gataacatgg gtcgggtaac caagagagag attaaaatag ggccctttgc 180  
 caacaccacc aaatatgctt atgaatatga tgttgatgga cagctccaaa cagtttacct 240  
 caatgaaaag ataattgtggc ggtacaacta cgatctgaat ggaaacctcc atttactgaa 300  
 cccaagtaac agtgcgcgtc tgacaccctc tcgctatgac ctgcgagaca gaatcactcg 360  
 actgggtgat gttcaatatc ggttggatga agatgggttc ctacgtcaaa ggggcacgga 420  
 aatctttgaa tatagctcca aggggcttct aactcgagtt tacagtaaag gcagtggctg 480  
 gacagtgatc taccgttatg acggcctggg aaggcgtgtt tctagcaaaa ccagtctagg 540  
 acagcacctg cagttttttt atgctgactt aacttatccc actaggatta ctcatgtcta 600  
 caaccattcg agttcagaaa ttacctccct gtattatgat ctccaaggac atctttttgc 660  
 catggaaatc agcagtgggg atgagttcta tattgcatcg gataacacag ggacaccact 720  
 ggctgtgttc agtagcaatg ggcttatgct gaaacagatt cagtacactg catatgggga 780  
 aatctatitt gactctaata ttgactttca actggtaatt ggatttcatg gtggcctgta 840  
 tgacccactc accaaattaa tccacttttg agaaagagat tatgacattt tggcaggacg 900  
 gtggacaaca cctgacatag aaatctggaa aagaattggg aaggaccagc ctctttttaa 960  
 ctgttacatg tttaggaata acaaccctgc aagcaaaatc catgacgtga aagattacat 1020  
 cacagatgtt aacagctggc tggtagacatt tggtttccat ctgcacaatg ctattcctgg 1080  
 attccctgtt cccaaatttg atttaacaga accttcttac gaacttgtga agagtcagca 1140  
 gtgggatgat ataccgcca tcttcggagt ccagcagcaa gtggcgcggc aggccaaggc 1200  
 ctctctgtcg ctggggaaga tggccgaggt gcaggtgagc cggcgccggg ccggcggcgc 1260  
 gcagtcttgg ctgtggttcg ccacggtcaa gtcgctgacg ggcaaggcgc tcatgctggc 1320  
 cgtcagccag ggccgcgtgc agaccaacgt gctcaacatc gccaacgagg actgcatcaa 1380  
 ggtggcggcc gtgctcaaca acgccttcta cctggagaac ctgcacttca ccatcgaggg 1440  
 caaggacacg cactacttca tcaagaccac cagcccgag agcgacctgg gcacgctgcg 1500  
 gttgaccagc ggccgcaagg cgctggagaa cggcatcaac gtgacgggtg cgcagtccac 1560

cacggtggtg aacggcagga cgcgcaggtt cgcggacgtg gagatgcagt tcggcgcgct 1620  
 ggcgctgcac gtgcgctacg gcatgaccct ggacgaggag aaggcgcgca tcctggagca 1680  
 ggcgcggcag cgcgcgctcg cccgggcctg ggcgcgcgag cagcagcgcg tcgcgcgacgg 1740  
 cgaggagggc gcgcgcctct ggacggaggc cgagaagcgg cagctgctga gcgcggcaa 1800  
 ggtgcagggc tacgacgggt actacgtact ctcggtggag cagtaccocg agctggccga 1860  
 cagcgccaac aacatccagt tcctgcggca gagcgagatc ggacggagggt aacgcccggg 1920  
 ccgcgcccgc cgagccgctc acgcoctgcc cacattgtcc tgtggcacia cccgagtggg 1980  
 actctccaac gcccaagagc cttcctcccg ggggaatgag actgctgtta cgaccacac 2040  
 ccacaccgcg aaaacaagga ccgctttttt ccgaatgacc ttaaagggtga tcggctttaa 2100  
 cgaatatgtt tacatatgca tagcgctgca ctcagtcgga ctgaacgtag ccagagg 2157

<210> 11266  
 <211> 625  
 <212> PRT  
 <213> Homo sapiens

<400> 11266  
 Met Thr Tyr Thr Lys His Phe Asp Ala His Gly Arg Ile Lys Glu Ile  
 1 5 10 15  
 Gln Tyr Glu Ile Phe Arg Ser Leu Met Tyr Trp Ile Thr Ile Gln Tyr  
 20 25 30  
 Asp Asn Met Gly Arg Val Thr Lys Arg Glu Ile Lys Ile Gly Pro Phe  
 35 40 45  
 Ala Asn Thr Thr Lys Tyr Ala Tyr Glu Tyr Asp Val Asp Gly Gln Leu  
 50 55 60  
 Gln Thr Val Tyr Leu Asn Glu Lys Ile Met Trp Arg Tyr Asn Tyr Asp  
 65 70 75 80  
 Leu Asn Gly Asn Leu His Leu Leu Asn Pro Ser Asn Ser Ala Arg Leu  
 85 90 95  
 Thr Pro Leu Arg Tyr Asp Leu Arg Asp Arg Ile Thr Arg Leu Gly Asp  
 100 105 110  
 Val Gln Tyr Arg Leu Asp Glu Asp Gly Phe Leu Arg Gln Arg Gly Thr  
 115 120 125  
 Glu Ile Phe Glu Tyr Ser Ser Lys Gly Leu Leu Thr Arg Val Tyr Ser  
 130 135 140  
 Lys Gly Ser Gly Trp Thr Val Ile Tyr Arg Tyr Asp Gly Leu Gly Arg  
 145 150 155 160  
 Arg Val Ser Ser Lys Thr Ser Leu Gly Gln His Leu Gln Phe Phe Tyr  
 165 170 175  
 Ala Asp Leu Thr Tyr Pro Thr Arg Ile Thr His Val Tyr Asn His Ser  
 180 185 190  
 Ser Ser Glu Ile Thr Ser Leu Tyr Tyr Asp Leu Gln Gly His Leu Phe  
 195 200 205  
 Ala Met Glu Ile Ser Ser Gly Asp Glu Phe Tyr Ile Ala Ser Asp Asn  
 210 215 220  
 Thr Gly Thr Pro Leu Ala Val Phe Ser Ser Asn Gly Leu Met Leu Lys  
 225 230 235 240

003240.69462960

Gln Ile Gln Tyr Thr Ala Tyr Gly Glu Ile Tyr Phe Asp Ser Asn Ile  
245 250 255  
Asp Phe Gln Leu Val Ile Gly Phe His Gly Gly Leu Tyr Asp Pro Leu  
260 265 270  
Thr Lys Leu Ile His Phe Gly Glu Arg Asp Tyr Asp Ile Leu Ala Gly  
275 280 285  
Arg Trp Thr Thr Pro Asp Ile Glu Ile Trp Lys Arg Ile Gly Lys Asp  
290 295 300  
Pro Ala Pro Phe Asn Leu Tyr Met Phe Arg Asn Asn Pro Ala Ser  
305 310 315 320  
Lys Ile His Asp Val Lys Asp Tyr Ile Thr Asp Val Asn Ser Trp Leu  
325 330 335  
Val Thr Phe Gly Phe His Leu His Asn Ala Ile Pro Gly Phe Pro Val  
340 345 350  
Pro Lys Phe Asp Leu Thr Glu Pro Ser Tyr Glu Leu Val Lys Ser Gln  
355 360 365  
Gln Trp Asp Asp Ile Pro Pro Ile Phe Gly Val Gln Gln Gln Val Ala  
370 375 380  
Arg Gln Ala Lys Ala Phe Leu Ser Leu Gly Lys Met Ala Glu Val Gln  
385 390 395 400  
Val Ser Arg Arg Arg Ala Gly Gly Ala Gln Ser Trp Leu Trp Phe Ala  
405 410 415  
Thr Val Lys Ser Leu Ile Gly Lys Gly Val Met Leu Ala Val Ser Gln  
420 425 430  
Gly Arg Val Gln Thr Asn Val Leu Asn Ile Ala Asn Glu Asp Cys Ile  
435 440 445  
Lys Val Ala Ala Val Leu Asn Asn Ala Phe Tyr Leu Glu Asn Leu His  
450 455 460  
Phe Thr Ile Glu Gly Lys Asp Thr His Tyr Phe Ile Lys Thr Thr Thr  
465 470 475 480  
Pro Glu Ser Asp Leu Gly Thr Leu Arg Leu Thr Ser Gly Arg Lys Ala  
485 490 495  
Leu Glu Asn Gly Ile Asn Val Thr Val Ser Gln Ser Thr Thr Val Val  
500 505 510  
Asn Gly Arg Thr Arg Arg Phe Ala Asp Val Glu Met Gln Phe Gly Ala  
515 520 525  
Leu Ala Leu His Val Arg Tyr Gly Met Thr Leu Asp Glu Glu Lys Ala  
530 535 540  
Arg Ile Leu Glu Gln Ala Arg Gln Arg Ala Leu Ala Arg Ala Trp Ala  
545 550 555 560  
Arg Glu Gln Gln Arg Val Arg Asp Gly Glu Glu Gly Ala Arg Leu Trp  
565 570 575  
Thr Glu Gly Glu Lys Arg Gln Leu Leu Ser Ala Gly Lys Val Gln Gly  
580 585 590  
Tyr Asp Gly Tyr Tyr Val Leu Ser Val Glu Gln Tyr Pro Glu Leu Ala  
595 600 605  
Asp Ser Ala Asn Asn Ile Gln Phe Leu Arg Gln Ser Glu Ile Gly Arg  
610 615 620

09629459 . 072800



Arg  
625

<210> 11267  
<211> 2005  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (17).. (949)

<400> 11267  
attctgcctc gaaggcatgg aggagtcagg ctctgagggc ctagacgagc tgatttttgc 60  
ccggaaaagac acattcttta aggatgtgga ctatgtctgc atttctgaca attactggct 120  
gggaaagaag aagccctgca tcacctacgg cctcaggggc atttgcctact ttttcacga 180  
ggtggagtgc agcaacaaag acctccattc tggggtgtac gggggctcgg tgcattgaggc 240  
catgactgat ctcatcttgc tgatgggctc tttgggtggac aagaggggga acatcctgat 300  
ccccggcatt aacgaggccg tggccgccgt cacggaagag gagcacaagc tgtacgacga 360  
catcgacttt gacatagagg agtttgccaa ggatgtgggg gcgcagatcc tcctgcacag 420  
ccacaagaaa gacatcctca tgcaccgatg gcggtaccgc tctctgtccc tccatggcat 480  
cgaaggcgcc ttctctgggt ctggggccaa gaccgtgatt ccaggaagg tggtcggcaa 540  
gttctccatc aggctcgtgc cgaacatgac tcctgaagtc gtggcgagc aggtcacaag 600  
ctacctaaact aagaagtttg ctgaactacg cagccccaat gatttcaagg tgtacatggg 660  
ccacgggtggg aagccctggg tctccgactt cagtcaccct cattacctgg ctgggagaag 720  
agccatgaag acagtttttg gtgttgagcc agacttgacc agggaaggcg gcagtattcc 780  
cgtgaccttg acctttcagg aggccacggg caagaacgtc atgtgtctgc ctgtggggtc 840  
agcgggatgac ggagcccact ccagaatga aaagctcaac aggtataact acatagaggg 900  
aaccaagatg ctggccgcgt acctgtatga ggtctccag ctgaaggact aggccaagcc 960  
ctctgtgtgc catctccaat gagaaggaat cctgccctca cctcaccctt ttccaacttg 1020  
cccaggggaag tggaggttcc ctctttcctt tccctcttgt caggtcaccc atgactttag 1080  
agaacagaca caagtgtatc cagctgtcca cgggttgagc taccggttgg gottatgagt 1140  
gacctggagt gacagctgag tcaccctggg taagtcttca gagggtcag gatggcttga 1200  
cctgcagaag ataccacaagg tccaaaagca caaggctctgc ggaaagtctt ggttgtcggc 1260  
tgggcaccac ggtcacacc tataatcgag cactttggga ggccaagaca ggaggatcac 1320  
ttgaggccag gagtctgaga caagcctagg caacaaaaca agactctgtc totacaaaaa 1380  
gtttaagaaa tgagccagac atggtggtgt atgcctgtag tccagccac tcagaaggct 1440  
gaggcaggag gatcgcttga gaccaagagt ttgagcctgc ggtgagctgt gaatgcacca 1500  
cggcactcaa gcctgggcaa thtagcaaga tcctgtctct acaagaaatt ttttaaaaat 1560  
gagccaagtg tgggtggtgca tgcctgtagt tccagctact caggacactg acgtaggagg 1620  
gttgcttgag actgagagtt ggaggctgcg atgagccatg aatgccccac tgcactccag 1680  
cctgggcgac agaacgagac cccatctcaa aaaaaataag ttctggttgt cattgaattg 1740  
ggataaacag agagcttgat gctttctgcc ttctgtctca ggtgatgcat tgcacatttg 1800  
ggatattttg aaaggaaaatg aggaaagaaa ttagggcctc ctctgatctc tcgtatctg 1860  
cgggtcctgt ccttttctca agaccttcac cattactggt gttttcctgt cttctcttta 1920  
gtatgatccc tcaaaacctc actaactgga aggatgattt tgtctcagtt tgtaactccta 1980  
aataaaaagt aaacatgaca cctct 2005

09629469.072800

<210> 11268  
 <211> 311  
 <212> PRT  
 <213> Homo sapiens

<400> 11268

Met	Glu	Glu	Ser	Gly	Ser	Glu	Gly	Leu	Asp	Glu	Leu	Ile	Phe	Ala	Arg
1				5					10					15	
Lys	Asp	Thr	Phe	Phe	Lys	Asp	Val	Asp	Tyr	Val	Cys	Ile	Ser	Asp	Asn
			20					25					30		
Tyr	Trp	Leu	Gly	Lys	Lys	Lys	Pro	Cys	Ile	Thr	Tyr	Gly	Leu	Arg	Gly
		35					40					45			
Ile	Cys	Tyr	Phe	Phe	Ile	Glu	Val	Glu	Cys	Ser	Asn	Lys	Asp	Leu	His
	50				55						60				
Ser	Gly	Val	Tyr	Gly	Gly	Ser	Val	His	Glu	Ala	Met	Thr	Asp	Leu	Ile
65					70					75					80
Leu	Leu	Met	Gly	Ser	Leu	Val	Asp	Lys	Arg	Gly	Asn	Ile	Leu	Ile	Pro
				85					90					95	
Gly	Ile	Asn	Glu	Ala	Val	Ala	Ala	Val	Thr	Glu	Glu	Glu	His	Lys	Leu
		100						105					110		
Tyr	Asp	Asp	Ile	Asp	Phe	Asp	Ile	Glu	Glu	Phe	Ala	Lys	Asp	Val	Gly
	115					120						125			
Ala	Gln	Ile	Leu	Leu	His	Ser	His	Lys	Lys	Asp	Ile	Leu	Met	His	Arg
	130					135					140				
Trp	Arg	Tyr	Pro	Ser	Leu	Ser	Leu	His	Gly	Ile	Glu	Gly	Ala	Phe	Ser
145					150						155				160
Gly	Ser	Gly	Ala	Lys	Thr	Val	Ile	Pro	Arg	Lys	Val	Val	Gly	Lys	Phe
				165					170					175	
Ser	Ile	Arg	Leu	Val	Pro	Asn	Met	Thr	Pro	Glu	Val	Val	Gly	Glu	Gln
		180					185						190		
Val	Thr	Ser	Tyr	Leu	Thr	Lys	Lys	Phe	Ala	Glu	Leu	Arg	Ser	Pro	Asn
	195					200						205			
Glu	Phe	Lys	Val	Tyr	Met	Gly	His	Gly	Gly	Lys	Pro	Trp	Val	Ser	Asp
	210					215					220				
Phe	Ser	His	Pro	His	Tyr	Leu	Ala	Gly	Arg	Arg	Ala	Met	Lys	Thr	Val
225					230					235					240
Phe	Gly	Val	Glu	Pro	Asp	Leu	Thr	Arg	Glu	Gly	Gly	Ser	Ile	Pro	Val
				245					250					255	
Thr	Leu	Thr	Phe	Gln	Glu	Ala	Thr	Gly	Lys	Asn	Val	Met	Leu	Leu	Pro
			260					265					270		
Val	Gly	Ser	Ala	Asp	Asp	Gly	Ala	His	Ser	Gln	Asn	Glu	Lys	Leu	Asn
	275					280						285			
Arg	Tyr	Asn	Tyr	Ile	Glu	Gly	Thr	Lys	Met	Leu	Ala	Ala	Tyr	Leu	Tyr
	290					295					300				
Glu	Val	Ser	Gln	Leu	Lys	Asp									
305					310										

09629469.072800

<210> 11269  
<211> 1787  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (158).. (1726)

<400> 11269  
gactggggga acatttgtac aaaactaacg atgaagttat tcatggcatc ttcaaagctt 60  
acattcagag gctgcttcac gccttggctc gacactgcc a gctggatcag accatgaggg 120  
ggttcctgag gagactgatg actttgggga gtttcgc atg agggatcag acctggtaaa 180  
ggacttgatt ttcttgatag ggtctatgga gtgttttgc t cagttatatt ctactctgaa 240  
agaaggcaac ccaccctggg aggtgacaga agcggttctc tttatcatgg ctgctatagc 300  
aaagagtgtt gatccggaaa acaatccaac acttgtggaa gtcctagaag gagttgtccg 360  
cctcccgagg accgtacata cggctgtgcg atacatcagc attgaattgg ttggagagat 420  
gagtgaagtc gttgatcgaa atcctcagtt ccttgaccct gtgttgggct atttgatgaa 480  
aggcctgtgt gaaaagcccc tggcttctgc tgcagccaaa gccattcata acatttgcctc 540  
tgtctgccga gatcacatgg ctccagcactt taatggactc ctggagattg cccgctccct 600  
cgattccttc ctgttgtctc cagaagctgc tgtgggcttg ctaaaaggga cagcacttgt 660  
cctagcccga ttacctttgg ataagattac cgaatgtctt agtgaactat gttctgttca 720  
ggttatggca ttgaaaaagc tgttgtctca agagcccagc aatggcatat cctcagatcc 780  
cacagtgttc ttagatcgcc ttgcagtgat atttaggcat accaatccca ttgtggaaaa 840  
tggacagact catccgtgtc agaaagtcac acaggaaata tggccagttt tatccgagac 900  
tctaaataag caccgagctg ataatcggat ttagagagct tgttgcaggt gcctgcgctt 960  
tgtctgtcgc tgtgtaggca aaggatctgc agcactgctg cagccactag tcacacagat 1020  
ggatgaatat taccacgtac atcagcattc ctgcttctc tacccttggca gtatccttgt 1080  
ggatgaatat ggcatggaag aaggctgtcg gcagggactg ctagacatgc tccaggcact 1140  
gtgcaccccc acctttcagc tcctagaaca gcagaatggg ctccagaatc accctgacac 1200  
ttagatgac ctgttccggc tagccaccag gtttattcag cgtagccctg tcaccttgct 1260  
gcggagccaa gtggtcatcc ctatcttaca gtggggccatt gcctctacta ccctggacca 1320  
ccgggatgcc aattgtagt tcatgagggt tctacgagac ctcatcata caggggtagc 1380  
caatgatcat gaagaagact ttgaattacg gaaagaactg attggacagg tgatgaacca 1440  
gcttggacag cagcttgtca gccagctgct gcacacctgc tgccttttgc tcccccccta 1500  
taccctacca gatgtggctg aagtgtctct ggagatcatg caggttgaca gaccgacttt 1560  
ttgtcgatgg ttagaaaatt ccttaaaagg tttgccaaag gaaacaaccg tgggagccgt 1620  
cacagtgaca cacaacaac ttacagactt ccacaagcaa gtcaactagt ctgaggaatg 1680  
taaacaagtt tgctgggcct tgcgagactt caccagggtt tttcgatagc tcacactcct 1740  
gcactgtgcc tgcacccag gaatgtcttt ttttaattaga agacagg 1787

<210> 11270  
<211> 523  
<212> PRT  
<213> Homo sapiens

003270.69462960

<400> 11270

Met	Arg	Val	Ser	Asp	Leu	Val	Lys	Asp	Leu	Ile	Phe	Leu	Ile	Gly	Ser
1				5					10					15	
Met	Glu	Cys	Phe	Ala	Gln	Leu	Tyr	Ser	Thr	Leu	Lys	Glu	Gly	Asn	Pro
			20					25					30		
Pro	Trp	Glu	Val	Thr	Glu	Ala	Val	Leu	Phe	Ile	Met	Ala	Ala	Ile	Ala
		35					40					45			
Lys	Ser	Val	Asp	Pro	Glu	Asn	Asn	Pro	Thr	Leu	Val	Glu	Val	Leu	Glu
	50					55					60				
Gly	Val	Val	Arg	Leu	Pro	Glu	Thr	Val	His	Thr	Ala	Val	Arg	Tyr	Ile
65					70					75					80
Ser	Ile	Glu	Leu	Val	Gly	Glu	Met	Ser	Glu	Val	Val	Asp	Arg	Asn	Pro
			85						90					95	
Gln	Phe	Leu	Asp	Pro	Val	Leu	Gly	Tyr	Leu	Met	Lys	Gly	Leu	Cys	Glu
			100					105					110		
Lys	Pro	Leu	Ala	Ser	Ala	Ala	Ala	Lys	Ala	Ile	His	Asn	Ile	Cys	Ser
	115					120						125			
Val	Cys	Arg	Asp	His	Met	Ala	Gln	His	Phe	Asn	Gly	Leu	Leu	Glu	Ile
	130					135					140				
Ala	Arg	Ser	Leu	Asp	Ser	Phe	Leu	Leu	Ser	Pro	Glu	Ala	Ala	Val	Gly
145					150					155					160
Leu	Leu	Lys	Gly	Thr	Ala	Leu	Val	Leu	Ala	Arg	Leu	Pro	Leu	Asp	Lys
				165					170					175	
Ile	Thr	Glu	Cys	Leu	Ser	Glu	Leu	Cys	Ser	Val	Gln	Val	Met	Ala	Leu
			180					185					190		
Lys	Lys	Leu	Leu	Ser	Gln	Glu	Pro	Ser	Asn	Gly	Ile	Ser	Ser	Asp	Pro
		195				200						205			
Thr	Val	Phe	Leu	Asp	Arg	Leu	Ala	Val	Ile	Phe	Arg	His	Thr	Asn	Pro
	210					215					220				
Ile	Val	Glu	Asn	Gly	Gln	Thr	His	Pro	Cys	Gln	Lys	Val	Ile	Gln	Glu
225					230					235					240
Ile	Trp	Pro	Val	Leu	Ser	Glu	Thr	Leu	Asn	Lys	His	Arg	Ala	Asp	Asn
				245					250					255	
Arg	Ile	Val	Glu	Arg	Cys	Cys	Arg	Cys	Leu	Arg	Phe	Ala	Val	Arg	Cys
			260					265					270		
Val	Gly	Lys	Gly	Ser	Ala	Ala	Leu	Leu	Gln	Pro	Leu	Val	Thr	Gln	Met
		275					280					285			
Val	Asn	Val	Tyr	His	Val	His	Gln	His	Ser	Cys	Phe	Leu	Tyr	Leu	Gly
	290					295					300				
Ser	Ile	Leu	Val	Asp	Glu	Tyr	Gly	Met	Glu	Glu	Gly	Cys	Arg	Gln	Gly
305					310					315					320
Leu	Leu	Asp	Met	Leu	Gln	Ala	Leu	Cys	Ile	Pro	Thr	Phe	Gln	Leu	Leu
				325					330					335	
Glu	Gln	Gln	Asn	Gly	Leu	Gln	Asn	His	Pro	Asp	Thr	Val	Asp	Asp	Leu
			340					345					350		
Phe	Arg	Leu	Ala	Thr	Arg	Phe	Ile	Gln	Arg	Ser	Pro	Val	Thr	Leu	Leu
		355					360						365		

09629469.072800

-4734/13211-

Arg Ser Gln Val Val Ile Pro Ile Leu Gln Trp Ala Ile Ala Ser Thr  
370 375 380  
Thr Leu Asp His Arg Asp Ala Asn Cys Ser Val Met Arg Phe Leu Arg  
385 390 395 400  
Asp Leu Ile His Thr Gly Val Ala Asn Asp His Glu Glu Asp Phe Glu  
405 410 415  
Leu Arg Lys Glu Leu Ile Gly Gln Val Met Asn Gln Leu Gly Gln Gln  
420 425 430  
Leu Val Ser Gln Leu Leu His Thr Cys Cys Phe Cys Leu Pro Pro Tyr  
435 440 445  
Thr Leu Pro Asp Val Ala Glu Val Leu Trp Glu Ile Met Gln Val Asp  
450 455 460  
Arg Pro Thr Phe Cys Arg Trp Leu Glu Asn Ser Leu Lys Gly Leu Pro  
465 470 475 480  
Lys Glu Thr Thr Val Gly Ala Val Thr Val Thr His Lys Gln Leu Thr  
485 490 495  
Asp Phe His Lys Gln Val Thr Ser Ala Glu Glu Cys Lys Gln Val Cys  
500 505 510  
Trp Ala Leu Arg Asp Phe Thr Arg Leu Phe Arg  
515 520

<210> 11271  
<211> 2020  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (23).. (1345)

<400> 11271  
agaccccgaa ttacacagcaa gcatggaaag caaaatctgc cccttcacca tgcgcatttt 60  
cctaaagtac agtaatgata ccgtcgtcgc ctactggct caggacatct tcaaggagct 120  
gtcccagatt gaagcctgtc agggcccaat gcaaatgagg ctgattccca ctctggtcag 180  
cataatgcag gcccagcag acaagattcc tgcagggtt tgtgcgacag ccattgatat 240  
cctgacaaca gtagtacgaa atacaaagcc tcccctttcc cagcttctca tctgccaagc 300  
tttcctgtct gtggcacagt gtacccttca cacagatgac aatgccacca tgcagaatgg 360  
cggagagtgc ttgcgggcct atgtgtcagt gaccctggaa caagtagccc agtggcatga 420  
tgagcagggc cacaatggac tgtggtatgt gatgcaagtg gtgagccagc tcttggaacc 480  
ccgcacctca gagttcactg cggcctttgt gggccgcctt gtttcacccc tcatctccaa 540  
ggcagggcgg gaactcgggg agaactctaga ccagattctt cgtgccatcc tcagtaagat 600  
gcagcaggca gagacgctca gtgtcatgca gtccctgata atggtgttgc ctcatctggt 660  
gcacactcag ctagaacctc tcttgagatt cctgtgtagc ctcccaggac ctactggcaa 720  
acctgctcta gagtttgtga tggctgagtg gacaagccga cagcacctgt tctatggaca 780  
gtatgaaggc aaagtcagct ctgtggcact ctgtaagctg ctccagcatg gcatcaatgc 840  
agatgacaaa cggctacagg atatccgtgt gaaggagag gagatctaca gcatggatga 900  
gggcatccgc accgctcta agtcagccaa aaaccagaa cgctggacaa acattccttt 960

09629469.072800

```

gctgggtcaag atcctaaagc tgatcatcaa cgagctctcc aacgtcatgg aggctaattgc 1020
cgctcgccag gccactcctg cagagtggag tcaagatgac tccaatgata tgtgggagga 1080
ccaggaggag gaagaggagg aggaggagga tggtttagct ggccaacttt tatctgacat 1140
tcttgctaca agtaaataatg aggaggatta ctacgaggat gatgaggaag atgaccctga 1200
tgccctgaag gatcctctct atcagattga tctgcaggca tatctcacag atttcctctg 1260
ccagtttgct cagcagccct gctacataat gttttcaggc caccttaatg acaatgagag 1320
gcgagtctta cagaccatcg gcatctaaaa aggggagcct ttctacattt gctccttctg 1380
ggccagccgc aaaccatttt gcagccctca ctggccttga gatgcacttt cttctcaacc 1440
taaaagggca tcttgaccct tggcccttgg cctcggcagt gacactgatg acaattcaga 1500
ccaggctcac cgggtgcgto acttaggaat gctggaacaa aggacatttc tcaaagttcc 1560
cctgaagaca tgccatctct agaacctttt ttctccccga ctctaccccc acctctgttc 1620
ctagagccct ctgctggcga gtccagaaac attattgccc agaaggatta tgtgtttatg 1680
gattattttg cccgcctca ggagcgcagg aagtcactac catttatatt ctaaaacaga 1740
actatctatg ttcataggac ttctgatgtg ttcagatagg aatcctcatg agagatcatt 1800
atgctttgtg ccttggaaca ctgccgctct gggttctcag gaggaacagg caagggcagc 1860
ttcattctaa gcctttccag tgacctcagc cttgcttctc ttctacaaca ctaaggctcc 1920
tctgtcagag gaggtcgtct tgtttttgct tcattgcatg acataaccct tcccctcaag 1980
ctgttcctat atatacatgc acacacaaaa taagccagac 2020

```

<210> 11272

<211> 441

<212> PRT

<213> Homo sapiens

<400> 11272

```

Met Glu Ser Lys Ile Cys Pro Phe Thr Ile Ala Ile Phe Leu Lys Tyr
  1             5             10             15
Ser Asn Asp Pro Val Val Ala Ser Leu Ala Gln Asp Ile Phe Lys Glu
          20             25             30
Leu Ser Gln Ile Glu Ala Cys Gln Gly Pro Met Gln Met Arg Leu Ile
          35             40             45
Pro Thr Leu Val Ser Ile Met Gln Ala Pro Ala Asp Lys Ile Pro Ala
          50             55             60
Gly Leu Cys Ala Thr Ala Ile Asp Ile Leu Thr Thr Val Val Arg Asn
          65             70             75             80
Thr Lys Pro Pro Leu Ser Gln Leu Leu Ile Cys Gln Ala Phe Pro Ala
          85             90             95
Val Ala Gln Cys Thr Leu His Thr Asp Asp Asn Ala Thr Met Gln Asn
          100            105            110
Gly Gly Glu Cys Leu Arg Ala Tyr Val Ser Val Thr Leu Glu Gln Val
          115            120            125
Ala Gln Trp His Asp Glu Gln Gly His Asn Gly Leu Trp Tyr Val Met
          130            135            140
Gln Val Val Ser Gln Leu Leu Asp Pro Arg Thr Ser Glu Phe Thr Ala
          145            150            155            160
Ala Phe Val Gly Arg Leu Val Ser Thr Leu Ile Ser Lys Ala Gly Arg
          165            170            175

```

09629469.072800

-4736/13211-

Glu Leu Gly Glu Asn Leu Asp Gln Ile Leu Arg Ala Ile Leu Ser Lys  
180 185 190  
Met Gln Gln Ala Glu Thr Leu Ser Val Met Gln Ser Leu Ile Met Val  
195 200 205  
Phe Ala His Leu Val His Thr Gln Leu Glu Pro Leu Leu Glu Phe Leu  
210 215 220  
Cys Ser Leu Pro Gly Pro Thr Gly Lys Pro Ala Leu Glu Phe Val Met  
225 230 235 240  
Ala Glu Trp Thr Ser Arg Gln His Leu Phe Tyr Gly Gln Tyr Glu Gly  
245 250 255  
Lys Val Ser Ser Val Ala Leu Cys Lys Leu Leu Gln His Gly Ile Asn  
260 265 270  
Ala Asp Asp Lys Arg Leu Gln Asp Ile Arg Val Lys Gly Glu Glu Ile  
275 280 285  
Tyr Ser Met Asp Glu Gly Ile Arg Thr Arg Ser Lys Ser Ala Lys Asn  
290 295 300  
Pro Glu Arg Trp Thr Asn Ile Pro Leu Leu Val Lys Ile Leu Lys Leu  
305 310 315 320  
Ile Ile Asn Glu Leu Ser Asn Val Met Glu Ala Asn Ala Ala Arg Gln  
325 330 335  
Ala Thr Pro Ala Glu Trp Ser Gln Asp Asp Ser Asn Asp Met Trp Glu  
340 345 350  
Asp Gln Glu Glu Glu Glu Glu Glu Glu Asp Gly Leu Ala Gly Gln  
355 360 365  
Leu Leu Ser Asp Ile Leu Ala Thr Ser Lys Tyr Glu Glu Asp Tyr Tyr  
370 375 380  
Glu Asp Asp Glu Glu Asp Asp Pro Asp Ala Leu Lys Asp Pro Leu Tyr  
385 390 395 400  
Gln Ile Asp Leu Gln Ala Tyr Leu Thr Asp Phe Leu Cys Gln Phe Ala  
405 410 415  
Gln Gln Pro Cys Tyr Ile Met Phe Ser Gly His Leu Asn Asp Asn Glu  
420 425 430  
Arg Arg Val Leu Gln Thr Ile Gly Ile  
435 440

<210> 11273  
<211> 2092  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (64).. (960)

<400> 11273  
cttccgggag cctggggccc aggactgcag cggcttcgga aggtgggctc tgccagcggg 60  
accatgctgc tccgagccgc ttggaggcgg gcggcagtggt cgggtgacagc ggctccaggg 120

09629469.072800

```

ccgaagcccg cggcgcccaac tcgggggctg cgcctgcgcg ttggagaccg tgctcctcag 180
tctgcggttc ccgcagatac agccgctgcc ccggagggtg ggccagtgcg gcgacctctc 240
tatatggatg tgcaagctac aactcctctg gacccccggg tgcttgatgc catgctccct 300
tacctaatac actactatgg gaacccacac tcccggaacac atgcttatgg ctgggagagt 360
gaggcagcca tggaacgtgc tcgtcagcaa gtagcatctc tgattggagc tgatcctcgt 420
gagatcattt ttactagtgg tgctactgaa tocaacaaca tagcaattaa ggggggtggcc 480
cgattctaca ggtcacggaa aaagcacttg atcaccacc agacagaaca caaatgtgtc 540
ttggactcct gccgttcact ggaagctgag ggctttcagg tcacctacct cccagtgcag 600
aagagtggga tcattgacct aaaggaacta gaggctgcta tccagccaga tactagcctg 660
gtgtcagtca tgaactgtga caatgagatt ggagtgaagc agcctattgc agaaataggg 720
cggatttgca gttccagaaa ggtatatatt catactgatg cagcccaggc tgttgaaaaa 780
atcccacttg atgtcaatga catgaaaatt gatctcatga gcattagtgg tcacaaaatc 840
tacggtccca aaggggttgg tgccatctac atccgtgccg ggccccgtgt gcgtgtggag 900
gccctgcaga gtggaggggg gcaggagcgg ggtatgcggg ctgggacagt gccacaccct 960
tagtggtggg gctggggggt gctgtgtagg tggcacagca agagatggag tatgaccaca 1020
agcgaatctc aaagtgtgca gagcggctga tacagaatat aatgaagagc cttccagatg 1080
tggtgatgaa tggggacctt aagcaccatt atcccggtct tatcaacctc tcctttgcat 1140
atgtggaagg ggaaagtctg ctgatggcac tgaaggacgt tgccttatcc tcagggagtg 1200
cctgcacctc tgcacctctg gagccctctt atgtgcttag agcaattggc actgatgagg 1260
atttagcgca ctcttctatc aggtttggaa ttggccgctt cactacagag gaggaagtgg 1320
actacacagt ggagaaatgc attcagcatg tgaagcgtct tcgagaaatg agccctctct 1380
gggagatggg tcaggatggc attgacctca agagcatcaa gtggacccaa cactagaaga 1440
atagggccct gactttgtgc tggctctggc cctcctgcct caccaaccog tgcacaacca 1500
gacaccttgt tacacctagt ggatgctcta gatttggtata gaccagtiga cttcagcatc 1560
agtccacctc tatgacagaa acacaagaaa actgtctttc cctagcttca gttccttggg 1620
tgtggagcac tccccatttc ttctcgggtc ttaaagtgtg tggacatttt catcccgaag 1680
ccatagagac atttgctgtc atattgctgc tgggcacatc tgtgctcttg gtgaggagag 1740
caagaggaac cagaagaagt ctctttggtc agggaccatg atgctotaca tggacatttg 1800
agtcttcgtc ttctgctgct gctcggctgg accagcttct ttaacagcaa gcataatcca 1860
cttcaatgta atattttctg tagctccaaa ggctatctct tcatattgac tgcagacaga 1920
ctgaatggac agtttcttag agggcttgtc tctttctac ccttgtctc tttcctttcc 1980
tttgacctaa tggagctaga aatatgtctg tgactccacc agttattcta ataatttgtt 2040
ttctcgaaaa ttgttaattt caagactgga gaaataaact caccttctat tt 2092

```

<210> 11274  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<400> 11274  
 Met Leu Leu Arg Ala Ala Trp Arg Arg Ala Ala Val Ala Val Thr Ala  
 1 5 10 15  
 Ala Pro Gly Pro Lys Pro Ala Ala Pro Thr Arg Gly Leu Arg Leu Arg  
 20 25 30  
 Val Gly Asp Arg Ala Pro Gln Ser Ala Val Pro Ala Asp Thr Ala Ala  
 35 40 45  
 Ala Pro Glu Val Gly Pro Val Leu Arg Pro Leu Tyr Met Asp Val Gln

003270.69462960



-4738/13211-

50	55	60
Ala Thr Thr Pro Leu Asp Pro Arg Val Leu Asp Ala Met Leu Pro Tyr		
65	70	75
Leu Ile Asn Tyr Tyr Gly Asn Pro His Ser Arg Thr His Ala Tyr Gly		80
	85	90
Trp Glu Ser Glu Ala Ala Met Glu Arg Ala Arg Gln Gln Val Ala Ser		95
	100	105
Leu Ile Gly Ala Asp Pro Arg Glu Ile Ile Phe Thr Ser Gly Ala Thr		110
	115	120
Glu Ser Asn Asn Ile Ala Ile Lys Gly Val Ala Arg Phe Tyr Arg Ser		125
	130	135
Arg Lys Lys His Leu Ile Thr Thr Gln Thr Glu His Lys Cys Val Leu		140
145	150	155
Asp Ser Cys Arg Ser Leu Glu Ala Glu Gly Phe Gln Val Thr Tyr Leu		160
	165	170
Pro Val Gln Lys Ser Gly Ile Ile Asp Leu Lys Glu Leu Glu Ala Ala		175
	180	185
Ile Gln Pro Asp Thr Ser Leu Val Ser Val Met Thr Val Asn Asn Glu		190
	195	200
Ile Gly Val Lys Gln Pro Ile Ala Glu Ile Gly Arg Ile Cys Ser Ser		205
	210	215
Arg Lys Val Tyr Phe His Thr Asp Ala Ala Gln Ala Val Gly Lys Ile		220
225	230	235
Pro Leu Asp Val Asn Asp Met Lys Ile Asp Leu Met Ser Ile Ser Gly		240
	245	250
His Lys Ile Tyr Gly Pro Lys Gly Val Gly Ala Ile Tyr Ile Arg Arg		255
	260	265
Arg Pro Arg Val Arg Val Glu Ala Leu Gln Ser Gly Gly Gly Gln Glu		270
	275	280
Arg Gly Met Arg Ser Gly Thr Val Pro His Pro		285
290	295	

<210> 11275  
 <211> 1916  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (179).. (1522)

<400> 11275  
 tgagcgaagc tcctgcacct catcctccac ccaccagaga gatgggaagt tctgtgactg 60  
 ctgctactgt gatttcttcg gccacaatgc gccaccgct gcccgcacga gtcggaacta 120  
 taccgagatc cgggagaagc tccgctcgag gctgaccagg cggaaagagg agctgcccac 180  
 gaaggggggc accctgggag ggatccctgg ggagcccgcc gtggaccacc gagatgtgga 240  
 tgagctgctg gaattcatca acagcacgga gcccaaagtc cccaacagcg ccagggccgc 300

003220" 69462960

```

caagcggggcc cggcacaagc tgaaaaagaa ggaaaaggag aaggcccagt tggcagcaga 360
agctctaaag caggcaaata gtgtttctgg aagccgggag ccaaggcctg ccagggagag 420
gctcttggag tggcccgacc gggaactgga tcgggtcaac agcttcctga gcagccgtct 480
gcaggagatc aaaaacactg tcaaagactc catccgtgcc agcttcagtg tgtgtgagct 540
cagcatggac agcaatggct tctctaagga gggggctgct gagcctgagc ctgagagtct 600
acccccctca aacctcagtg gtcctcaga gcagcagcct gacatcaacc ttgacctgtc 660
ccctttgact ttgggctccc ctcagaacca cacgttacaa gctccaggcg agccagcccc 720
accatgggca gaaatgagag gccccaccc accatggaca gaggtgaggg ggccccctcc 780
cggtatcgtc ccgagaaacg ggctcgtgag gagactcaac accgtgcccc acctatcccg 840
ggtgatctgg gtcaagacac ccaagccggg ctaccccagc tccgaggagc caagctcaaa 900
ggaagttccc agttgcaagc aggagctgcc tgagcctgtg tcctcaggtg ggaagccaca 960
gaagggcaag aggcagggca gtcaggccaa gaagagcgag gcaagcccag cccccgggcc 1020
cccagccagc ctagaggttc ccagtgccaa gggccaggtc gctggcccca agcagccagg 1080
cagggctcta gagcttccca aagtaggcag ctgtgctgag gctggagagg ggagccgggg 1140
gagccggcca ggaccagggt gggctggcag tcccaaaact gagaaggaga agggcagctc 1200
ctggcgaaaac tggccaggcg aggccaaaggc acggcctcag gagcaggagt ctgtgcagcc 1260
cccaggccca gcaaggccac agagcttgcc ccagggcaag ggccgcagcc gccggagccg 1320
caacaagcag gagaagccag cctcctcctt ggacgatgtg ttcttgccca aggacatgga 1380
cgggggtggag atggatgaga ctgaccgaga ggtggagtac ttttaagagg tctgttttga 1440
ttctgcaaag cagactcgtc agaaagtgtg tgtgaactgg accaacttca gcctcaagaa 1500
aaccactcct agcacagctc agtgaggccc tgcccaggct gagctgcttc agggcatcct 1560
gaggccctga ctgccagctg aaggcgtata atttttccct ccgtgtgccc cacctacccg 1620
tccaagacct tctgtgctcc ccaccatoot ggtccaacca aaagctgaac ggatgccaca 1680
ctgtgctggg gcccttgac ctgagcagag ccgcttcctg gtgctacgca gcctccacac 1740
tcagagcccg tggactgggc tggcctaagg gccagggctg atggtactgc tggcccaaca 1800
ctgctctctt tgtgtttggt tttttgttt ttgtttttat tttgttttt tccaattctt 1860
tacttttgat actgtgaaga tctttcgtgc cgaaagataa agcaacattt ggacac 1916

```

<210> 11276  
 <211> 448  
 <212> PRT  
 <213> Homo sapiens

<400> 11276  
 Met Lys Gly Gly Thr Leu Gly Gly Ile Pro Gly Glu Pro Ala Val Asp  
 1 5 10 15  
 His Arg Asp Val Asp Glu Leu Leu Glu Phe Ile Asn Ser Thr Glu Pro  
 20 25 30  
 Lys Val Pro Asn Ser Ala Arg Ala Ala Lys Arg Ala Arg His Lys Leu  
 35 40 45  
 Lys Lys Lys Glu Lys Glu Lys Ala Gln Leu Ala Ala Glu Ala Leu Lys  
 50 55 60  
 Gln Ala Asn Arg Val Ser Gly Ser Arg Glu Pro Arg Pro Ala Arg Glu  
 65 70 75 80  
 Arg Leu Leu Glu Trp Pro Asp Arg Glu Leu Asp Arg Val Asn Ser Phe  
 85 90 95  
 Leu Ser Ser Arg Leu Gln Glu Ile Lys Asn Thr Val Lys Asp Ser Ile

$\langle 210 \rangle$	11277
$\langle 211 \rangle$	2094
$\langle 212 \rangle$	DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (163).. (2079)

<400> 11277

```
cctactaaaa aaaatgcaga gaagtattcc ggcatTTtTgg aaggtcctgt ggaccgaccc 60
gtactcagca actattcgga cacaccatca ggactagtga acggtcggaa aaatgaaagt 120
gaaccctggc agccttcctt gaattcagaa gctgtttatc ccatgaactg tgttcgggat 180
gttatcactg ccagcaaagc tggagtcagt tcagccctcc ctccagcaga tgtctctgcg 240
agtataggaa gctctcctgg ggtagccagc aacctgacag aacctagtta ttcaagtagt 300
acctgtggaa gccacactgt acccagtcct catgcagggc tcccatctca ggaatatgcc 360
ccaggataca acggatcata ttTgcattct acttatagta gccagccagc acctgcactt 420
ccttcacctc atccgtctcc ttTgcatagc tctgggctac tacagccccc accaccacct 480
cctccgccac cagccttggT cccaggctac aatgggactt ctaacctctc cagttacagc 540
tatccgtctg ctagctatcc tcctcagact gctgtggggT ctgggtacag ccctgggggg 600
gcaccgcctc cgccttcagc gtacctgcct tcaggaattc ctgctccac cccctaccc 660
cccaccactg ttcttggtc caccaccag ggccatggTt tgacacctat tgcaccgtcg 720
gctctgacaa acagttcagc aagtTctctc aaaaggaaag ctttctacat ggcagggcaa 780
ggagatatgg actccagtta tggaaattac agctatggcc aacagagatc tacacagagt 840
cctatgtaca gaatgcccga caacagcatt tcaaacacaa atcgggggaa tggctttgac 900
agaagtgtctg aaacatcatc cttagcattt aagccaacga agcagctaatt gtcctctgaa 960
cagcaaagga aattcagcag ccagtccagt agggctctga cccctcctc ctacagtact 1020
gctaaaaatt cattgggatc aagatccagt gaatcctttg ggaagtacac atcgccagta 1080
atgagtgagc atggggacga gcacaggcag ctctctctc acccaatgca aggccctgga 1140
ctccgtgcag ctacctatc caaccactct gtggacgagc aactgaagaa tactgacacg 1200
cacctcatcg acctggtaac caatgagatt atcacccaag gacctccagt ggactggaat 1260
gacattgctg gtctcgacct ggtgaaggct gtcattaaag aggaggTTTT atggccagtT 1320
ttgaggTcag acgcgttcag tggactgacg gccttacctc ggagcatcct tttatttTga 1380
cctcgggggga caggcaaaac attattgggc agatgcacTg ctagtcagct gggggccaca 1440
TTTTTcaaaa ttgccggttc tggactagTc gccaaTggT taggagaagc agagaaaatt 1500
atccatgcct cttttctTgt ggccaggTgt cggcagccct cggTgatttt Tgttagtgac 1560
attgacatgc ttctctcctc tcaagtgaat gaggaacata gtccagtTcag tcggatgaga 1620
accgaatttc tgatgcaact ggacactgta ctaacttcgg ctgaggacca aatcgtagta 1680
atttTtgcca ccagtaaacc agaagaaata gatgaatccc ttcgagggta cttcatgaaa 1740
cgacttttaa tcccacttcc tgacagcaca gcgaggcacc agataatagt acaactgctc 1800
tcacagcaca attactgtct caatgacaag gagtttgcac tgctcgtcca gcgcacagaa 1860
ggcttttctg gactagatgt ggctcatttT tTtcaggaag cagtggTggg cccctccat 1920
gccatgccag ccacagacct ttcagccatt atgccagcc agttgaggcc cgttacatat 1980
caagactttg aaaaTgcttt ctgcaagatt cagcctagca tatctcaaaa ggagcttgat 2040
atgtatgtTg aatggaacaa aatgtttggT tgcagtTcagt gataacttct ttag 2094
```

<210> 11278

<211> 639

<212> PRT

<213> Homo sapiens

09629469.072800

<400> 11278

Met	Asn	Cys	Val	Pro	Asp	Val	Ile	Thr	Ala	Ser	Lys	Ala	Gly	Val	Ser
1				5					10					15	
Ser	Ala	Leu	Pro	Pro	Ala	Asp	Val	Ser	Ala	Ser	Ile	Gly	Ser	Ser	Pro
			20					25					30		
Gly	Val	Ala	Ser	Asn	Leu	Thr	Glu	Pro	Ser	Tyr	Ser	Ser	Ser	Thr	Cys
		35					40					45			
Gly	Ser	His	Thr	Val	Pro	Ser	Leu	His	Ala	Gly	Leu	Pro	Ser	Gln	Glu
	50					55					60				
Tyr	Ala	Pro	Gly	Tyr	Asn	Gly	Ser	Tyr	Leu	His	Ser	Thr	Tyr	Ser	Ser
65					70				75						80
Gln	Pro	Ala	Pro	Ala	Leu	Pro	Ser	Pro	His	Pro	Ser	Pro	Leu	His	Ser
				85					90					95	
Ser	Gly	Leu	Leu	Gln	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Ala	Leu
			100					105					110		
Val	Pro	Gly	Tyr	Asn	Gly	Thr	Ser	Asn	Leu	Ser	Ser	Tyr	Ser	Tyr	Pro
	115						120					125			
Ser	Ala	Ser	Tyr	Pro	Pro	Gln	Thr	Ala	Val	Gly	Ser	Gly	Tyr	Ser	Pro
	130					135					140				
Gly	Gly	Ala	Pro	Pro	Pro	Pro	Ser	Ala	Tyr	Leu	Pro	Ser	Gly	Ile	Pro
145					150					155					160
Ala	Pro	Thr	Pro	Leu	Pro	Pro	Thr	Thr	Val	Pro	Gly	Tyr	Thr	Tyr	Gln
				165					170					175	
Gly	His	Gly	Leu	Thr	Pro	Ile	Ala	Pro	Ser	Ala	Leu	Thr	Asn	Ser	Ser
			180					185					190		
Ala	Ser	Ser	Leu	Lys	Arg	Lys	Ala	Phe	Tyr	Met	Ala	Gly	Gln	Gly	Asp
		195					200					205			
Met	Asp	Ser	Ser	Tyr	Gly	Asn	Tyr	Ser	Tyr	Gly	Gln	Gln	Arg	Ser	Thr
	210					215					220				
Gln	Ser	Pro	Met	Tyr	Arg	Met	Pro	Asp	Asn	Ser	Ile	Ser	Asn	Thr	Asn
225					230					235					240
Arg	Gly	Asn	Gly	Phe	Asp	Arg	Ser	Ala	Glu	Thr	Ser	Ser	Leu	Ala	Phe
				245					250					255	
Lys	Pro	Thr	Lys	Gln	Leu	Met	Ser	Ser	Glu	Gln	Gln	Arg	Lys	Phe	Ser
			260					265					270		
Ser	Gln	Ser	Ser	Arg	Ala	Leu	Thr	Pro	Pro	Ser	Tyr	Ser	Thr	Ala	Lys
		275					280					285			
Asn	Ser	Leu	Gly	Ser	Arg	Ser	Ser	Glu	Ser	Phe	Gly	Lys	Tyr	Thr	Ser
	290					295					300				
Pro	Val	Met	Ser	Glu	His	Gly	Asp	Glu	His	Arg	Gln	Leu	Leu	Ser	His
305					310					315					320
Pro	Met	Gln	Gly	Pro	Gly	Leu	Arg	Ala	Ala	Thr	Ser	Ser	Asn	His	Ser
				325					330					335	
Val	Asp	Glu	Gln	Leu	Lys	Asn	Thr	Asp	Thr	His	Leu	Ile	Asp	Leu	Val
		340						345					350		
Thr	Asn	Glu	Ile	Ile	Thr	Gln	Gly	Pro	Pro	Val	Asp	Trp	Asn	Asp	Ile
		355					360						365		

09629469.072800

-4743/13211-

Ala Gly Leu Asp Leu Val Lys Ala Val Ile Lys Glu Glu Val Leu Trp  
370 375 380  
Pro Val Leu Arg Ser Asp Ala Phe Ser Gly Leu Thr Ala Leu Pro Arg  
385 390 395 400  
Ser Ile Leu Leu Phe Gly Pro Arg Gly Thr Gly Lys Thr Leu Leu Gly  
405 410 415  
Arg Cys Ile Ala Ser Gln Leu Gly Ala Thr Phe Phe Lys Ile Ala Gly  
420 425 430  
Ser Gly Leu Val Ala Lys Trp Leu Gly Glu Ala Glu Lys Ile Ile His  
435 440 445  
Ala Ser Phe Leu Val Ala Arg Cys Arg Gln Pro Ser Val Ile Phe Val  
450 455 460  
Ser Asp Ile Asp Met Leu Leu Ser Ser Gln Val Asn Glu Glu His Ser  
465 470 475 480  
Pro Val Ser Arg Met Arg Thr Glu Phe Leu Met Gln Leu Asp Thr Val  
485 490 495  
Leu Thr Ser Ala Glu Asp Gln Ile Val Val Ile Cys Ala Thr Ser Lys  
500 505 510  
Pro Glu Glu Ile Asp Glu Ser Leu Arg Arg Tyr Phe Met Lys Arg Leu  
515 520 525  
Leu Ile Pro Leu Pro Asp Ser Thr Ala Arg His Gln Ile Ile Val Gln  
530 535 540  
Leu Leu Ser Gln His Asn Tyr Cys Leu Asn Asp Lys Glu Phe Ala Leu  
545 550 555 560  
Leu Val Gln Arg Thr Glu Gly Phe Ser Gly Leu Asp Val Ala His Leu  
565 570 575  
Cys Gln Glu Ala Val Val Gly Pro Leu His Ala Met Pro Ala Thr Asp  
580 585 590  
Leu Ser Ala Ile Met Pro Ser Gln Leu Arg Pro Val Thr Tyr Gln Asp  
595 600 605  
Phe Glu Asn Ala Phe Cys Lys Ile Gln Pro Ser Ile Ser Gln Lys Glu  
610 615 620  
Leu Asp Met Tyr Val Glu Trp Asn Lys Met Phe Gly Cys Ser Gln  
625 630 635

<210> 11279

<211> 2253

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (107)..(1087)

<400> 11279

gtgccccgga tgtgcccagc tggctcctgg cccacccct cgggcctttg ggctggacca 60  
gccacctctg cctgagacct ccggtcgccg caagaagctg gagaggatgt acagogttga 120

09629469.072800

003220.69452950

```

ccgtgtgtct gacgacatcc ctattcgtac ctggttcccc aaggaaaatc ttttcagctt 180
ccagacagca accacaacta tgcaagcggg gttcaggggc tacgcggaga ggaagcgccg 240
gaaacgggag aatgattccg cgtctgtaat ccagaggaac ttccgcaaac acctgcgcac 300
ggtcggcgagc cggagggtga aggccagac gttcgcgtgag cggcgcgagc ggagcttcag 360
ccggtccttg agcgacccca ccccatgaa agccgacact tcccacgact cccgagacag 420
cagtgcactg cagagctccc actgcacgct ggacgaggcc ttcgaggacc tggactggga 480
cactgagaag ggcctggagg ctgtggcctg cgacaccgaa ggcttcgtgc caccaaaggt 540
catgctcatt tcctccaagg tgcccaaggc tgagtacatc cccactatca tccgccggga 600
tgaccctcc atcatccca tcctctacga ccattgagcac gcaaccttcg aggacatcct 660
tgaggagata gagaggaagc tgaacgtcta ccacaaggga gccaagatct ggaatgtct 720
gattttctgc cagggagggtc ctggacacct ctatctcctc aagaacaagg tggccacctt 780
tgccaaagtg gagaaggaag aggacatgat tcacttctgg aagcggctga gccgcctgat 840
gagcaaagtg aaccagagc cgaacgtcat ccacatcatg ggctgctaca ttctggggaa 900
ccccaatgga gagaagctgt tcagaacct caggaccctc atgactcctt atagggtcac 960
cttcgagtca cccctggagc tctcagccca aggggaagcag atgatcgaga cgtactttga 1020
cttcgggttg tatcgctgtt ggaagagccg ccagcactcg aagctgctgg actttgacga 1080
cgtcctgtga ggggcagagg cctccgcca gtcaccatca ggccactccc tctgcaccgg 1140
gacctggggc tgggcgcctt cgtgctcccc gggactgtgt agctccggtc tgcctggag 1200
ccacttcagg gcacctcaga cgttgctcag gttccccctg tgggttcgg tcctcgctgc 1260
accogtggcc gcagaggctg cagtccctgg gggccgggag gatcccgccc tgtggcccg 1320
ggatgctcag cggccaggca ctgacctgac atgcctcgcc tggaggctca gctgtgggca 1380
tccctccatg gggttcatag aaataagtgc aatttctaca ccccgaaac aattcaaagg 1440
gaagcagcat ttcttgtaa ctagttaagc actatgctgc tagttacagt gtaggcaccc 1500
cggcccagca gccagcagc ccacatgtgt tcaggacct ccctgcccac cccctccctg 1560
ccgtatcgat caccagcacc aggggtggcc gtgtgcgtgg ggccagcgtc gccgggctgc 1620
ccagcctggc tctgtctaca ctggccgagt ctctgggtct gtctacactg gccagctctc 1680
cgactgtctg tgctttcact tacactcctc ttgccacccc ccacccctgc ttacttagac 1740
ctcagccggc gccggacccg gtaggggcag tctgggcagc aggaaggaag ggcgcagcgt 1800
cccctccttc agaggaggct ctgggtgggg cctgctcctc atcccccaa gccacccag 1860
cactctcatt gctgctgttg agttcagctt ttaccagcct cagtgtggag gctccatccc 1920
agcacacagg cctggggctt ggcagggggc cagctggggc tgggcccctg gttttgagaa 1980
actcgtggc accacagtgg gccctggac ccggccgogc agctggtgga ctgtaggggc 2040
tcctgactgg gcacaggagc tcccagcttt tgtccacggc cagcaggatg ggctgtcgtg 2100
tatatagctg gggcgagggg gcaggccccc cttgtgcaga gccaggggtc tgagggcacc 2160
tggctgtgtt ccagctgag ggagggtgg ggccggggcc gggcttgga c gatgtacga 2220
tacctcata gtgaccatta aacctgatcc tcc 2253

```

<210> 11280  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<400> 11280  
 Met Tyr Ser Val Asp Arg Val Ser Asp Asp Ile Pro Ile Arg Thr Trp  
 1 5 10 15  
 Phe Pro Lys Glu Asn Leu Phe Ser Phe Gln Thr Ala Thr Thr Met  
 20 25 30

-4745/13211-

Gln	Ala	Val	Phe	Arg	Gly	Tyr	Ala	Glu	Arg	Lys	Arg	Arg	Lys	Arg	Glu
		35					40					45			
Asn	Asp	Ser	Ala	Ser	Val	Ile	Gln	Arg	Asn	Phe	Arg	Lys	His	Leu	Arg
		50				55					60				
Met	Val	Gly	Ser	Arg	Arg	Val	Lys	Ala	Gln	Thr	Phe	Ala	Glu	Arg	Arg
65					70					75					80
Glu	Arg	Ser	Phe	Ser	Arg	Ser	Trp	Ser	Asp	Pro	Thr	Pro	Met	Lys	Ala
				85					90					95	
Asp	Thr	Ser	His	Asp	Ser	Arg	Asp	Ser	Ser	Asp	Leu	Gln	Ser	Ser	His
			100					105					110		
Cys	Thr	Leu	Asp	Glu	Ala	Phe	Glu	Asp	Leu	Asp	Trp	Asp	Thr	Glu	Lys
		115					120					125			
Gly	Leu	Glu	Ala	Val	Ala	Cys	Asp	Thr	Glu	Gly	Phe	Val	Pro	Pro	Lys
		130				135					140				
Val	Met	Leu	Ile	Ser	Ser	Lys	Val	Pro	Lys	Ala	Glu	Tyr	Ile	Pro	Thr
145					150					155					160
Ile	Ile	Arg	Arg	Asp	Asp	Pro	Ser	Ile	Ile	Pro	Ile	Leu	Tyr	Asp	His
				165					170					175	
Glu	His	Ala	Thr	Phe	Glu	Asp	Ile	Leu	Glu	Glu	Ile	Glu	Arg	Lys	Leu
			180					185					190		
Asn	Val	Tyr	His	Lys	Gly	Ala	Lys	Ile	Trp	Lys	Met	Leu	Ile	Phe	Cys
		195					200					205			
Gln	Gly	Gly	Pro	Gly	His	Leu	Tyr	Leu	Leu	Lys	Asn	Lys	Val	Ala	Thr
	210				215						220				
Phe	Ala	Lys	Val	Glu	Lys	Glu	Glu	Asp	Met	Ile	His	Phe	Trp	Lys	Arg
225					230					235					240
Leu	Ser	Arg	Leu	Met	Ser	Lys	Val	Asn	Pro	Glu	Pro	Asn	Val	Ile	His
				245					250					255	
Ile	Met	Gly	Cys	Tyr	Ile	Leu	Gly	Asn	Pro	Asn	Gly	Glu	Lys	Leu	Phe
			260					265					270		
Gln	Asn	Leu	Arg	Thr	Leu	Met	Thr	Pro	Tyr	Arg	Val	Thr	Phe	Glu	Ser
		275					280						285		
Pro	Leu	Glu	Leu	Ser	Ala	Gln	Gly	Lys	Gln	Met	Ile	Glu	Thr	Tyr	Phe
	290					295					300				
Asp	Phe	Arg	Leu	Tyr	Arg	Leu	Trp	Lys	Ser	Arg	Gln	His	Ser	Lys	Leu
305					310					315					320
Leu	Asp	Phe	Asp	Asp	Val	Leu									
				325											

<210> 11281  
 <211> 1747  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (31).. (1746)

008220.69462960



<400> 11281

```

aaaaaaaaa aaaaaaaaaa cataacaagt atgaaaacag gtgagcttga gaaagaaaca 60
gcccccttga ggaaagatgc agatagttca atatcagtct tagagatcca tagtcaaaaa 120
gcacaaatag aggaaccoga tcctccagaa atggaaaactt ctcttgattc ttctgagatg 180
gcaaaagatc tctcttcaaa aacagcttta tcttccaccg agtcgtgtac catgaaaggt 240
gaagagaagt ctcccaaaac taagaaggat aagcgcccac caatcctaga atgtcttgaa 300
aagttagaga agtccaaaaa gacttttctt gataaggacg cacaaaagatt gagtccaata 360
ccagaagaag ttccaaagag tactctagag tcagaaaagc ctggctctcc tgaggcagct 420
gaaactttct caccatctaa tatcattgac cactgtgaga aactagcctc agaaaaagaa 480
gtggtagaat gccagagtac aagtactgtt ggtggccagt ctgtgaaaaa agtagacctt 540
gaaaccctaa aagaggattc tgagttcaca aaggtagaaa tggataatct ggacaatgcc 600
cagacctctg gcatagagga gccttctgag acaaagggtt ctatgcaaaa aagcaaattc 660
aaatataagt tggttcctga agaagaaacc actgcctcag aaaatacaga gataacctct 720
gaaaggcaga aagagggcac caaattaaca atcaggatat caagtcggaa aaagaagccc 780
gattctcccc ccaaagttct agaaccagaa aacaagcaag agaagacaga aaaggaagag 840
gagaaaacaa atgtgggtcg tactttaaga agatctccaa gaatatctag acccactgca 900
aaagtggctg agatcagaga tcagaaaagc gataaaaaaa gaggggaagg agaagatgag 960
gtggaagaag agtcaacagc ttgtcaaaaa actgacaaaa aggaaathtt gaaaaaatca 1020
gagaaagata caaattctaa agtaagcaag gtaaaaccca aaggcaaagt tcgatggact 1080
ggttctcggg caggtggcag atggaaatat tccagcaatg atgaaagtga agggctctggc 1140
agtgaanaat catctgcagc ttcagaagag gaggaagaaa aggaaagtga agaagccatc 1200
ctagcagatg atgatgaacc atgcaaaaaa tgtggccttc caaaccatcc tgagctaatt 1260
cttctgtgtg actcttgoga tagtggatac catactgcct gccttcgccc tcctctgatg 1320
atcatcccag atggagaatg gttctgcccc ccttgccaac ataaaactgct ctgtgaaaaa 1380
ttagaggaac agttgcagga tttggatgtt gccttaaaga agaaagagcg tgccgaacga 1440
agaaaagaac gcttgggtgt tgttggatat agtattgaaa acatcattcc tccacaagag 1500
ccagactttt ctgaagatca agaagaaaag aaaaaagatt caaaaaaatc caaagcaaac 1560
ttgcttgaag ggaggtcaac aagaacaagg aaatgtataa gctacagatt tgatgagttt 1620
gatgaagcaa ttgatgaagc tattgaagat gacatcaaaag aagccgatgg aggaggagtt 1680
ggccgaggaa aagatatctc caccatcaca ggtcatcgtg ggaaagacgt ctctactatt 1740
ttggatg                                     1747

```

<210> 11282

<211> 572

<212> PRT

<213> Homo sapiens

<400> 11282

```

Met Lys Thr Gly Glu Leu Glu Lys Glu Thr Ala Pro Leu Arg Lys Asp
 1             5             10             15
Ala Asp Ser Ser Ile Ser Val Leu Glu Ile His Ser Gln Lys Ala Gln
          20             25             30
Ile Glu Glu Pro Asp Pro Pro Glu Met Glu Thr Ser Leu Asp Ser Ser
          35             40             45
Glu Met Ala Lys Asp Leu Ser Ser Lys Thr Ala Leu Ser Ser Thr Glu
          50             55             60

```

003220"59462950

Ser	Cys	Thr	Met	Lys	Gly	Glu	Glu	Lys	Ser	Pro	Lys	Thr	Lys	Lys	Asp
65					70					75					80
Lys	Arg	Pro	Pro	Ile	Leu	Glu	Cys	Leu	Glu	Lys	Leu	Glu	Lys	Ser	Lys
				85					90						95
Lys	Thr	Phe	Leu	Asp	Lys	Asp	Ala	Gln	Arg	Leu	Ser	Pro	Ile	Pro	Glu
			100					105					110		
Glu	Val	Pro	Lys	Ser	Thr	Leu	Glu	Ser	Glu	Lys	Pro	Gly	Ser	Pro	Glu
		115					120					125			
Ala	Ala	Glu	Thr	Ser	Pro	Pro	Ser	Asn	Ile	Ile	Asp	His	Cys	Glu	Lys
	130					135					140				
Leu	Ala	Ser	Glu	Lys	Glu	Val	Val	Glu	Cys	Gln	Ser	Thr	Ser	Thr	Val
145					150					155					160
Gly	Gly	Gln	Ser	Val	Lys	Lys	Val	Asp	Leu	Glu	Thr	Leu	Lys	Glu	Asp
			165					170						175	
Ser	Glu	Phe	Thr	Lys	Val	Glu	Met	Asp	Asn	Leu	Asp	Asn	Ala	Gln	Thr
			180					185					190		
Ser	Gly	Ile	Glu	Glu	Pro	Ser	Glu	Thr	Lys	Gly	Ser	Met	Gln	Lys	Ser
	195						200					205			
Lys	Phe	Lys	Tyr	Lys	Leu	Val	Pro	Glu	Glu	Glu	Thr	Thr	Ala	Ser	Glu
	210					215					220				
Asn	Thr	Glu	Ile	Thr	Ser	Glu	Arg	Gln	Lys	Glu	Gly	Ile	Lys	Leu	Thr
225					230					235					240
Ile	Arg	Ile	Ser	Ser	Arg	Lys	Lys	Lys	Pro	Asp	Ser	Pro	Pro	Lys	Val
			245						250					255	
Leu	Glu	Pro	Glu	Asn	Lys	Gln	Glu	Lys	Thr	Glu	Lys	Glu	Glu	Glu	Lys
		260					265					270			
Thr	Asn	Val	Gly	Arg	Thr	Leu	Arg	Arg	Ser	Pro	Arg	Ile	Ser	Arg	Pro
	275					280						285			
Thr	Ala	Lys	Val	Ala	Glu	Ile	Arg	Asp	Gln	Lys	Ala	Asp	Lys	Lys	Arg
	290				295						300				
Gly	Glu	Gly	Glu	Asp	Glu	Val	Glu	Glu	Glu	Ser	Thr	Ala	Leu	Gln	Lys
305					310					315					320
Thr	Asp	Lys	Lys	Glu	Ile	Leu	Lys	Lys	Ser	Glu	Lys	Asp	Thr	Asn	Ser
			325						330					335	
Lys	Val	Ser	Lys	Val	Lys	Pro	Lys	Gly	Lys	Val	Arg	Trp	Thr	Gly	Ser
		340						345					350		
Arg	Thr	Arg	Gly	Arg	Trp	Lys	Tyr	Ser	Ser	Asn	Asp	Glu	Ser	Glu	Gly
		355				360						365			
Ser	Gly	Ser	Glu	Lys	Ser	Ser	Ala	Ala	Ser	Glu	Glu	Glu	Glu	Glu	Lys
	370					375					380				
Glu	Ser	Glu	Glu	Ala	Ile	Leu	Ala	Asp	Asp	Asp	Glu	Pro	Cys	Lys	Lys
385					390					395					400
Cys	Gly	Leu	Pro	Asn	His	Pro	Glu	Leu	Ile	Leu	Leu	Cys	Asp	Ser	Cys
			405						410					415	
Asp	Ser	Gly	Tyr	His	Thr	Ala	Cys	Leu	Arg	Pro	Pro	Leu	Met	Ile	Ile
		420					425					430			
Pro	Asp	Gly	Glu	Trp	Phe	Cys	Pro	Pro	Cys	Gln	His	Lys	Leu	Leu	Cys
		435					440					445			

000220" 69462960

Glu Lys Leu Glu Glu Gln Leu Gln Asp Leu Asp Val Ala Leu Lys Lys  
450 455 460  
Lys Glu Arg Ala Glu Arg Arg Lys Glu Arg Leu Val Tyr Val Gly Ile  
465 470 475 480  
Ser Ile Glu Asn Ile Ile Pro Pro Gln Glu Pro Asp Phe Ser Glu Asp  
485 490 495  
Gln Glu Glu Lys Lys Lys Asp Ser Lys Lys Ser Lys Ala Asn Leu Leu  
500 505 510  
Glu Arg Arg Ser Thr Arg Thr Arg Lys Cys Ile Ser Tyr Arg Phe Asp  
515 520 525  
Glu Phe Asp Glu Ala Ile Asp Glu Ala Ile Glu Asp Asp Ile Lys Glu  
530 535 540  
Ala Asp Gly Gly Gly Val Gly Arg Gly Lys Asp Ile Ser Thr Ile Thr  
545 550 555 560  
Gly His Arg Gly Lys Asp Val Ser Thr Ile Leu Asp  
565 570

<210> 11283  
<211> 2450  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (175).. (2196)

<400> 11283  
gagcttgtcc agacgaagcc tcgcagggat gggttggagc ctgggccgtg cttcgtcag 60  
gcagcgtttg aggcagaccc agcaggggtcc tcctggggcc ttccctgcctt tgaactgcgg 120  
tgccggggcgg gcgcacggtc tcctgtacgc cctagactag gggccgccat ctccatggcc 180  
acggccgtga gccggccctg cgcgggcagg tcgcgggaca tactgtggcg cgttttgggc 240  
tgaggatag ttgcaagtat tgtttgggtca gtgctatttc taccatctg caccacagta 300  
tttataattt tcagcaggat tgatttgttt catcctatac agtggctgtc tgattctttc 360  
agtgcctgt atagttccta tgtaatcttt tacttccctg tgcgtgcagt ggtaataata 420  
ataataagta ttttcaatgt ggagttctat gcagttgtgc cttctattcc ttgctccaga 480  
ctagctctga tagggaagat cattcatcct cagcaactca tgcactcatt tattcatgct 540  
gcaatgggaa tggatgatggc ctggtgtgct gcagtgataa cccagggcca gtacagcttt 600  
cttgtggttc cctgcactgg tactaacagc tttggtagcc ctgctgcgca aacctgctta 660  
aatgaatatc atcttttttt cctactgact ggagcattta tgggctatag ctatagcctc 720  
ctgtattttg ttaacaacat gaactatctt ccatttccca tcatacagca atacaagttc 780  
ttgcgtttta ggagatctct gctcttatta gttaaacaca gttgtgtgga atcactgttc 840  
ctggttagaa atttctgcat tttatattat tttcttggct atattcccaa agcttggatt 900  
agcactgcta tgaaccttca catagatgag caggttcata ggccacttga cacagtga 960  
ggcctcttaa atctctcgtt actctacat gtctggctgt gtggtgtctt tctcctgacg 1020  
acttggatat tctcatggat actcttcaaa atctatgcca cagaggctca tgtgtttcct 1080  
gttcaaccac catttgcaga aggttcagat gaggtccttc caaaagtgtt aatagcaat 1140  
cotcccccca tcataaagta tttagccttg caggacctga tgttgccttc tcaatattct 1200

002220.69462960

```

ccttcacgaa gacaagaagt tttcagcctc agccaaccag gtggacatcc ccacaattgg 1260
acagccattt caagggagtg tttgaatctt ttaaattggta tgactcagaa actgattctc 1320
tatcaagaag ctgctgctac gaatgggaga gtgtcttcat cttacccagt ggaacctaa 1380
aaattaaatt ctccagaaga aactgctttt cagacaccaa aatctagcca gatgcctcgg 1440
ccttcagtgc caccattagt taaaacatca ctgttttctt caaaattatc tacacctgat 1500
gttgtgagcc catttgggac ccatttggc tctagtgtaa tgaatcggat ggctggaatt 1560
tttgatgtaa acacctgcta tgggtcacccg caaagtctc agctaataag aagggggcca 1620
agattgtgga catcagcttc tgatcagcaa atgactgaat tttctaatac tttctccatc 1680
acctctatta gtgctgaggg taagacaatg agacaaccca gtgtgattta ttcattggatt 1740
cagaataaac gtgaacagat taagaatttc ttgtcaaaac ggggtgctgat aatgtatttt 1800
ttcagtaagc acccagaggg ctccattcag gctgtttttt cagatgcccc aatgcatatt 1860
tgggcattag aaggtctgtc gcacttagta gcagcatcat ttacagagga tagatttggg 1920
gttgtccaga cgacactacc agctatcctt aatactttgt tgacactgca agaggcagtc 1980
gacaagtact ttaagcttcc tcatgcttcc agtaaaccac ccgggatttc aggaagcctt 2040
gtggacactt catataaaac attaagattt gcattcagag catcactgaa aactgccatc 2100
tatcgaataa ctactacatt tgggtgaacat ctgaatgctg tgcaagcatc tgcagaacat 2160
cagaaaagac ttcaacagtt cttggagttc aaagaatagt taagtaatat aaactgtgtt 2220
cattacactg ctgatacaac tacagatggg acagtaaagc ttcagcattc ttggatcaga 2280
agaaaacgga ctaattagat gcttcctttg tctgtgtgtg tgctttgaaa actatacttt 2340
aatgggagaa atcatggaaa gaaattctca acagaataac tgaaaactgc cttttctgta 2400
ccgattgctt tttgtgtgtg tgggtataata aaatctttat tcaatttttag 2450

```

<210> 11284  
 <211> 674  
 <212> PRT  
 <213> Homo sapiens

<400> 11284

Met	Ala	Thr	Ala	Val	Ser	Arg	Pro	Cys	Ala	Gly	Arg	Ser	Arg	Asp	Ile
1				5					10					15	
Leu	Trp	Arg	Val	Leu	Gly	Trp	Arg	Ile	Val	Ala	Ser	Ile	Val	Trp	Ser
			20					25					30		
Val	Leu	Phe	Leu	Pro	Ile	Cys	Thr	Thr	Val	Phe	Ile	Ile	Phe	Ser	Arg
			35					40					45		
Ile	Asp	Leu	Phe	His	Pro	Ile	Gln	Trp	Leu	Ser	Asp	Ser	Phe	Ser	Asp
	50					55					60				
Leu	Tyr	Ser	Ser	Tyr	Val	Ile	Phe	Tyr	Phe	Leu	Leu	Leu	Ser	Val	Val
	65				70					75					80
Ile	Ile	Ile	Ile	Ser	Ile	Phe	Asn	Val	Glu	Phe	Tyr	Ala	Val	Val	Pro
				85					90					95	
Ser	Ile	Pro	Cys	Ser	Arg	Leu	Ala	Leu	Ile	Gly	Lys	Ile	Ile	His	Pro
			100					105					110		
Gln	Gln	Leu	Met	His	Ser	Phe	Ile	His	Ala	Ala	Met	Gly	Met	Val	Met
		115					120					125			
Ala	Trp	Cys	Ala	Ala	Val	Ile	Thr	Gln	Gly	Gln	Tyr	Ser	Phe	Leu	Val
	130					135					140				
Val	Pro	Cys	Thr	Gly	Thr	Asn	Ser	Phe	Gly	Ser	Pro	Ala	Ala	Gln	Thr

003220.69462960

145					150					155				160
Cys	Leu	Asn	Glu	Tyr	His	Leu	Phe	Phe	Leu	Leu	Thr	Gly	Ala	Phe
				165					170					175
Gly	Tyr	Ser	Tyr	Ser	Leu	Leu	Tyr	Phe	Val	Asn	Asn	Met	Asn	Tyr
			180					185					190	
Pro	Phe	Pro	Ile	Ile	Gln	Gln	Tyr	Lys	Phe	Leu	Arg	Phe	Arg	Ser
		195					200					205		
Leu	Leu	Leu	Leu	Val	Lys	His	Ser	Cys	Val	Glu	Ser	Leu	Phe	Val
	210					215					220			
Arg	Asn	Phe	Cys	Ile	Leu	Tyr	Tyr	Phe	Leu	Gly	Tyr	Ile	Pro	Lys
225					230					235				240
Trp	Ile	Ser	Thr	Ala	Met	Asn	Leu	His	Ile	Asp	Glu	Gln	Val	His
				245					250					255
Pro	Leu	Asp	Thr	Val	Ser	Gly	Leu	Leu	Asn	Leu	Ser	Leu	Leu	Tyr
			260				265						270	
Val	Trp	Leu	Cys	Gly	Val	Phe	Leu	Leu	Thr	Thr	Trp	Tyr	Val	Ser
		275					280					285		
Ile	Leu	Phe	Lys	Ile	Tyr	Ala	Thr	Glu	Ala	His	Val	Phe	Pro	Gln
	290					295					300			
Pro	Pro	Phe	Ala	Glu	Gly	Ser	Asp	Glu	Cys	Leu	Pro	Lys	Val	Leu
305					310					315				320
Ser	Asn	Pro	Pro	Pro	Ile	Ile	Lys	Tyr	Leu	Ala	Leu	Gln	Asp	Leu
				325					330					335
Leu	Leu	Ser	Gln	Tyr	Ser	Pro	Ser	Arg	Arg	Gln	Glu	Val	Phe	Ser
			340					345					350	
Ser	Gln	Pro	Gly	Gly	His	Pro	His	Asn	Trp	Thr	Ala	Ile	Ser	Arg
	355					360						365		
Cys	Leu	Asn	Leu	Leu	Asn	Gly	Met	Thr	Gln	Lys	Leu	Ile	Leu	Tyr
	370				375						380			
Glu	Ala	Ala	Ala	Thr	Asn	Gly	Arg	Val	Ser	Ser	Ser	Tyr	Pro	Glu
385					390					395				400
Pro	Lys	Lys	Leu	Asn	Ser	Pro	Glu	Glu	Thr	Ala	Phe	Gln	Thr	Lys
				405					410					415
Ser	Ser	Gln	Met	Pro	Arg	Pro	Ser	Val	Pro	Pro	Leu	Val	Lys	Thr
			420					425					430	
Leu	Phe	Ser	Ser	Lys	Leu	Ser	Thr	Pro	Asp	Val	Val	Ser	Pro	Gly
		435					440					445		
Thr	Pro	Phe	Gly	Ser	Ser	Val	Met	Asn	Arg	Met	Ala	Gly	Ile	Phe
	450					455					460			
Val	Asn	Thr	Cys	Tyr	Gly	Ser	Pro	Gln	Ser	Pro	Gln	Leu	Ile	Arg
465					470					475				480
Gly	Pro	Arg	Leu	Trp	Thr	Ser	Ala	Ser	Asp	Gln	Gln	Met	Thr	Glu
				485					490					495
Ser	Asn	Pro	Ser	Pro	Ser	Thr	Ser	Ile	Ser	Ala	Glu	Gly	Lys	Thr
		500						505					510	
Arg	Gln	Pro	Ser	Val	Ile	Tyr	Ser	Trp	Ile	Gln	Asn	Lys	Arg	Glu
	515						520					525		
Ile	Lys	Asn	Phe	Leu	Ser	Lys	Arg	Val	Leu	Ile	Met	Tyr	Phe	Ser

008220.69462960

530	535	540
Lys His Pro Glu Ala Ser Ile Gln Ala Val Phe Ser Asp Ala Gln Met		
545	550	555
His Ile Trp Ala Leu Glu Gly Leu Ser His Leu Val Ala Ala Ser Phe		
	565	570
Thr Glu Asp Arg Phe Gly Val Val Gln Thr Thr Leu Pro Ala Ile Leu		
	580	585
Asn Thr Leu Leu Thr Leu Gln Glu Ala Val Asp Lys Tyr Phe Lys Leu		
	595	600
Pro His Ala Ser Ser Lys Pro Pro Arg Ile Ser Gly Ser Leu Val Asp		
	610	615
Thr Ser Tyr Lys Thr Leu Arg Phe Ala Phe Arg Ala Ser Leu Lys Thr		
625	630	635
Ala Ile Tyr Arg Ile Thr Thr Thr Phe Gly Glu His Leu Asn Ala Val		
	645	650
Gln Ala Ser Ala Glu His Gln Lys Arg Leu Gln Gln Phe Leu Glu Phe		
	660	665
Lys Glu		670

<210> 11285  
 <211> 2357  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (386).. (1780)

<400> 11285  
 atccgggccc ttccagaagc aacccaggag ccccgagacc tgcagggatg tgtgcaccct 60  
 gacccttgac gcatagccct gcacctgcag ccagctggcc tcgggcttga aaacatggcg 120  
 ggtgcgctcc aattcacggt ggtttccaag cgcattcttg aggagaaaac acatgagtgt 180  
 gtggctcaggg ttctctgccg acagacctac cgtggggaag aaagagaagt totgaagatg 240  
 gatcatggcc gtgactgcat gtcaaggaga atctccatga tgacacggag gcctacgtcg 300  
 agatagagta aatatggtcc aattaaaagg tgacccgaca atcaaccctt gaaaaaggcg 360  
 gtcataaaac cccaggaga cgaagatgat ggcacgtcgt gaccccaaac ctggggcaaa 420  
 gagactggtg agagcccaga ccctccagaa gcagcggagg gcccagttg ggccaagggc 480  
 tccccgccc gatgaagaag atcccaggct caagtgcata aactgtgagg cttttggcca 540  
 cacggccaga agtaccaggt gcccctgaa gtgctggaag gcagccctgg ttccaccgaa 600  
 ctttggggaa aaggaaggga aggaacacct gaaaccatgg aagccccagg ttgaagcgaa 660  
 ccctgggccc ttgaacaagg ataagggaga gaaggaagag agaccaaggc cacaagaccc 720  
 gcagaggaag gctctcctcc acatattttc cgggaaacct ccagagaagc cgctgccaaa 780  
 tcaaaaagga tccacggaat cttctgatta tctgagggtt gcaagcgggc caatgccggt 840  
 ccacacaacc agtaagaggc cgcgtgtgga ccctgtcctc tctgatcgct cagctaccga 900  
 aatgtctgac aggggctccg tcttagcttc actgtctccc ctcagaaaag ccagtctgag 960  
 ctctctctca agtcttgagc caaaggaaag acagacaggg gctgcggccg acatccctca 1020

003220.69462960

gactgcagtc aggcaccagg gccccgagcc tctcctcgtg gtgaagccga cacacagcag 1080  
ccctgcgggt ggctgtcgag aagttcccca ggctgcctcc aaaaccacg gcctgctcca 1140  
ggccgtcagc cccagggcac aagacaaacg tcttgcggtg acctcacagc cctgcccacc 1200  
agccgccaca cacagcttgg gcctaggctc caatctcagc ttoggggccag gagccaagag 1260  
atctgccccg gctccgattc aggcttgcct gaacttcccc aagaaaccga gactgggtcc 1320  
cttccagatc cccgaaagcg ccatccaggg aggtgagctg ggggccccgg agaattctca 1380  
acctccgcca gccgcaaccg aacttggacc acgtaccgtg tcaccccaga taggcacgag 1440  
gacaccgcc caggtgctta gcggcgaccg gcagcctccg cacagcagac cttgcctgcc 1500  
tactgcccag gcctgcacca tgtcccatca cccagcggcc agccatgatg gggcccagcc 1560  
tctcagagtg ctctttcgga gactggaaaa cggacgctgg agctccagcc tgctgacggc 1620  
cccctcattt cactctcctg agaagccggg agccttccct gctcagagcc ctcatgtctc 1680  
agagaagtct gaggtccct gtgttcgtgt cccaccaagc gtcctctatg aggaccttca 1740  
ggttccctcc tctcagagg acagcgattc tgacctggag tgagactgca ggtggcaggg 1800  
gctccttggc ctccagctcc cgtgacttgg aggggactgt gggactgagg agcacagagc 1860  
agagagcaga ctctgtgcgg tgactccgaa gctccccggc tgtggccctt ctgtggatgt 1920  
gggagcccag gccaggcagg gagcagatgc agggactctg ccacgttgaa ttctggtgag 1980  
ggacattgta gttcgcatgg ttctctggaa acgcgccagg aaaagcttcc gtgccagtga 2040  
ttcgttgccct cagaaactgc atgacgcgca ggagtcagac ttccgctggg acgtcaatag 2100  
gaaacggggg aattactgtg tatttgctct ctagacgact gaataaggga aaagttaggg 2160  
aaccctgaga ggtgcagccc ttccgctgtg ccccgccctg agagcagtggt ttccgacgct 2220  
gggaagcgcg ctgtgcaaag cgctctcggg gtctttcctc agcctcgaaa agtgggctct 2280  
ggaatccctt tgtaaatagg tgtgttgaat ttgttttgaa gtgaataaaa ttctcaaaaa 2340  
gatgaaaaaa aaaaaag 2357

<210> 11286  
<211> 465  
<212> PRT  
<213> Homo sapiens

<400> 11286  
Met Met Ala Arg Arg Asp Pro Lys Pro Gly Ala Lys Arg Leu Val Arg  
1 5 10 15  
Ala Gln Thr Leu Gln Lys Gln Arg Arg Ala Pro Val Gly Pro Arg Ala  
20 25 30  
Pro Pro Pro Asp Glu Glu Asp Pro Arg Leu Lys Cys Lys Asn Cys Glu  
35 40 45  
Ala Phe Gly His Thr Ala Arg Ser Thr Arg Cys Pro Met Lys Cys Trp  
50 55 60  
Lys Ala Ala Leu Val Pro Pro Asn Phe Gly Glu Lys Glu Gly Lys Glu  
65 70 75 80  
Asn Leu Lys Pro Trp Lys Pro Gln Val Glu Ala Asn Pro Gly Pro Leu  
85 90 95  
Asn Lys Asp Lys Gly Glu Lys Glu Glu Arg Pro Arg Pro Gln Asp Pro  
100 105 110  
Gln Arg Lys Ala Leu Leu His Ile Phe Ser Gly Lys Pro Pro Glu Lys  
115 120 125  
Pro Leu Pro Asn Gln Lys Gly Ser Thr Glu Ser Ser Asp Tyr Leu Arg

009220.6462960

130	135	140
Val Ala Ser Gly Pro Met	Pro Val His Thr Thr	Ser Lys Arg Pro Arg
145	150	155
Val Asp Pro Val Leu Ser	Asp Arg Ser Ala Thr	Glu Met Ser Asp Arg
165	170	175
Gly Ser Val Leu Ala Ser	Leu Ser Pro Leu Arg	Lys Ala Ser Leu Ser
180	185	190
Ser Ser Ser Ser Leu Gly	Pro Lys Glu Arg Gln	Thr Gly Ala Ala Ala
195	200	205
Asp Ile Pro Gln Thr Ala	Val Arg His Gln Gly	Pro Glu Pro Leu Leu
210	215	220
Val Val Lys Pro Thr His	Ser Ser Pro Ala Gly	Gly Cys Arg Glu Val
225	230	235
Pro Gln Ala Ala Ser Lys	Thr His Gly Leu Leu	Gln Ala Val Ser Pro
245	250	255
Gln Ala Gln Asp Lys Arg	Pro Ala Val Thr Ser	Gln Pro Cys Pro Pro
260	265	270
Ala Ala Thr His Ser Leu	Gly Leu Gly Ser Asn	Leu Ser Phe Gly Pro
275	280	285
Gly Ala Lys Arg Ser Ala	Pro Ala Pro Ile Gln	Ala Cys Leu Asn Phe
290	295	300
Pro Lys Lys Pro Arg Leu	Gly Pro Phe Gln Ile	Pro Glu Ser Ala Ile
305	310	315
Gln Gly Gly Glu Leu Gly	Ala Pro Glu Asn Leu	Gln Pro Pro Pro Ala
325	330	335
Ala Thr Glu Leu Gly Pro	Arg Thr Val Ser Pro	Gln Ile Gly Thr Arg
340	345	350
Thr Pro Ala Gln Val Leu	Ser Gly Asp Arg Gln	Pro Pro His Ser Arg
355	360	365
Pro Cys Leu Pro Thr Ala	Gln Ala Cys Thr Met	Ser His His Pro Ala
370	375	380
Ala Ser His Asp Gly Ala	Gln Pro Leu Arg Val	Leu Phe Arg Arg Leu
385	390	395
Glu Asn Gly Arg Trp Ser	Ser Ser Ser Leu Leu	Thr Ala Pro Ser Phe His
405	410	415
Ser Pro Glu Lys Pro Gly	Ala Phe Leu Ala Gln	Ser Pro His Val Ser
420	425	430
Glu Lys Ser Glu Gly Pro	Cys Val Arg Val Pro	Pro Ser Val Leu Tyr
435	440	445
Glu Asp Leu Gln Val Pro	Ser Ser Ser Glu Asp	Ser Asp Ser Asp Leu
450	455	460
Glu		
465		

<210> 11287  
 <211> 2100  
 <212> DNA

008220"69462960



<213> Homo sapiens

<220>

<221> CDS

<222> (72).. (1340)

<400> 11287

```

gtcaccagga caacgggcgt cgccggcgcc gtgtgacttc gggctgtggg ctgctcgcg 60
gctcttcggc catggttttc tcaaacaatg atgaaggcct tattaacaaa aagttaccca 120
aagaacttct gttaagaata ttttccttct tggatatagt aactttgtgc cgatgtgcac 180
agattttcaa ggcttggaaac atcttagccc tggatggaag caactggcaa agaatagatc 240
tttttaactt tcaaacagat gtagagggtc gagtgggtga aaatatctcg aagcgatgcg 300
gtggattcct gaggaagctc agcttgcgag gctgcattgg tgttggggat tctccttga 360
agacctttgc acagaactgc cgaaacattg aacatttgaa cctcaatgga tgcacaaaaa 420
tcactgacag cacgtgttat agccttagca gattctgttc caagctgaaa catctggatc 480
tgacctcctg tgtgtctatt acaaacagct ccttgaaggg gatcagtga ggtgccgaa 540
acctggagta cctgaacctc tcttggtgtg atcagatcac gaaggatggc atcgaggcac 600
tggtgcgagg ttgtcgaggc ctgaaagccc tggccctgag gggctgcaca cagttagaag 660
atgaagctct gaaacacatt cagaattact gccatgagct tgtgagcctc aacttgcagt 720
cctgctcacg tatcacggat gaagggtgtg tgcagatatg caggggctgt caccggctac 780
aggctctctg ccttctgggt tgcagcaacc tcacagatgc ctctcttaca gccctgggtt 840
tgaactgtcc gcgactgcaa attttggagg ctgcccgatg ctccatttg actgacgcag 900
gttttacact tttagctcgg aattgccacg aattggagaa gatggatctt gaagaatgca 960
tcctgataac cgacagcaca ctcatccagc tctccattca ctgtcctaaa ctgcaagccc 1020
tgagcctgtc ccactgtgaa ctcatcacag atgatgggat cctgcacctg agcaacagta 1080
cctgtggcca tgagaggctg cgggtactgg agttggacaa ctgacctcct atcactgatg 1140
tggtccctgga acacctagag aactgccgag gcctggagcg cctcgagctg tacgactgcc 1200
agcaggttac ccgtgcaggc atcaagcggg tgcgggctca gctccctcat gtcaaagtcc 1260
acgcctaact tgctcccgtc accccaccga cagcagtggc aggaagtgga cagcgactgt 1320
gcaggtgctg tgtcattctc tgacagcagc tgcctgggcc caaggggtga tgaggcatcc 1380
tttctcttag aagacctgag tcttcttgac cgactccacc atcacccaat ctgttgattc 1440
tccattggga aaggcattta caggtaaaag acttctgtat ggattgcagt tactctggtg 1500
atagttttca cttttattct gctgtgaaac aatcaaatca aagccttggt tcagttaaca 1560
catgacaagt ggtctcaatg cagctaggac catgccagaa acctggatct cttaagagat 1620
tggtacctac ctaggtacga aagttctacc cttggcatac tcagcattcc tcaaaaagac 1680
catcagtgtt agcacaaact gagcagaaaa aataagctgt tgattttcta cctgatactt 1740
aagccagtgg cctactttta ttcacaaatt cattttgatt agcaggactt ttccactttg 1800
aagataaata gcaactttat caaagtgact gtactgcaaa ttaattcata atgcctgata 1860
gttttatata tagagactta tgtggaaggc atgttaatag gtttccatga gacaccaaag 1920
aaaagaggac tctatactgg gtggagcagg gtcttccact ttttgtttct gtcaacttgt 1980
catatacacc tccagggacc aaaaacaaaa gcagctcgga gtctgtgttg cctgattgga 2040
aagtagaagc tctggtgtat gctacagcac ataacacatt ttactaaag gaaaaaaaaa 2100

```

<210> 11288

<211> 423

<212> PRT

<213> Homo sapiens

**<400> 11288**

Met 1	Val	Phe	Ser	Asn 5	Asn	Asp	Glu	Gly	Leu 10	Ile	Asn	Lys	Lys	Leu 15	Pro
Lys	Glu	Leu	Leu	Leu 20	Arg	Ile	Phe	Ser	Phe 25	Leu	Asp	Ile	Val	Thr	Leu
Cys	Arg	Cys	Ala	Gln 35	Ile	Ser	Lys	Ala	Trp 40	Asn	Ile	Leu	Ala	Leu	Asp
Gly	Ser	Asn	Trp	Gln 50	Arg	Ile	Asp	Leu	Phe 55	Asn	Phe	Gln	Thr	Asp	Val
Glu	Gly	Arg	Val	Val 65	Glu	Asn	Ile	Ser	Lys 70	Arg	Cys	Gly	Gly	Phe	Leu
Arg	Lys	Leu	Ser	Leu 85	Arg	Gly	Cys	Ile	Gly 90	Val	Gly	Asp	Ser	Ser	Leu
Lys	Thr	Phe	Ala	Gln 100	Asn	Cys	Arg	Asn	Ile 105	Glu	His	Leu	Asn	Leu	Asn
Gly	Cys	Thr	Lys	Ile 115	Thr	Asp	Ser	Thr	Cys 120	Tyr	Ser	Leu	Ser	Arg	Phe
Cys	Ser	Lys	Leu	Lys 130	His	Leu	Asp	Leu	Thr 135	Ser	Cys	Val	Ser	Ile	Thr
Asn	Ser	Ser	Leu	Lys 145	Gly	Ile	Ser	Glu	Gly 150	Cys	Arg	Asn	Leu	Glu	Tyr
Leu	Asn	Leu	Ser	Trp 165	Cys	Asp	Gln	Ile	Thr 170	Lys	Asp	Gly	Ile	Glu	Ala
Leu	Val	Arg	Gly	Cys 180	Arg	Gly	Leu	Lys	Ala 185	Leu	Pro	Leu	Arg	Gly	Cys
Thr	Gln	Leu	Glu	Asp 195	Glu	Ala	Leu	Lys	His 200	Ile	Gln	Asn	Tyr	Cys	His
Glu	Leu	Val	Ser	Leu 210	Asn	Leu	Gln	Ser	Cys 215	Ser	Arg	Ile	Thr	Asp	Glu
Gly	Val	Val	Gln	Ile 225	Cys	Arg	Gly	Cys	His 230	Arg	Leu	Gln	Ala	Leu	Cys
Leu	Ser	Gly	Cys	Ser 245	Asn	Leu	Thr	Asp	Ala 250	Ser	Leu	Thr	Ala	Leu	Gly
Leu	Asn	Cys	Pro	Arg 260	Leu	Gln	Ile	Leu	Glu 265	Ala	Ala	Arg	Cys	Ser	His
Leu	Thr	Asp	Ala	Gly 275	Phe	Thr	Leu	Leu	Ala 280	Arg	Asn	Cys	His	Glu	Leu
Glu	Lys	Met	Asp	Leu 290	Glu	Glu	Cys	Ile	Leu 295	Ile	Thr	Asp	Ser	Thr	Leu
Ile	Gln	Leu	Ser	Ile 305	His	Cys	Pro	Lys	Leu 310	Gln	Ala	Leu	Ser	Leu	Ser
His	Cys	Glu	Leu	Ile 325	Thr	Asp	Asp	Gly	Ile 330	Leu	His	Leu	Ser	Asn	Ser
Thr	Cys	Gly	His	Glu 340	Arg	Leu	Arg	Val	Leu 345	Glu	Leu	Asp	Asn	Cys	Leu
Leu	Ile	Thr	Asp	Val 355	Ala	Leu	Glu	His	Leu 360	Glu	Asn	Cys	Arg	Gly	Leu

Glu Arg Leu Glu Leu Tyr Asp Cys Gln Gln Val Thr Arg Ala Gly Ile  
 370 375 380  
 Lys Arg Met Arg Ala Gln Leu Pro His Val Lys Val His Ala Tyr Phe  
 385 390 395 400  
 Ala Pro Val Thr Pro Pro Thr Ala Val Ala Gly Ser Gly Gln Arg Leu  
 405 410 415  
 Cys Arg Cys Cys Val Ile Leu  
 420

<210> 11289  
 <211> 2034  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (510).. (1784)

<400> 11289  
 agcagaatag ccaggcagga cagagaaact ccaccagcag tattgagccc aggcttctgt 60  
 gggagagagt ggagaagctg gtgccagac ctggcagtg cagctcctca ggggccagca 120  
 actcaggatc ccagcccggt tctcacctg ggtctcagag tggctccggg gaacgcttca 180  
 gagtgagatc atcatccaag tctgaaggct ctccatctca gogcctggaa aatgcagtga 240  
 aaaaacctga agataaaaag gaagttttca gacctctcaa gctgctgat ctgaccgcac 300  
 tggccaaaga gcttcgagca gtggaagatg tacggccacc tcacaaagta acggactact 360  
 cctcatccag tgaggagtcg gggacgacgg atgaggagga cgacgatgtg gaggaggaag 420  
 gggctgacga gtccacctca ggaccagagg acaccagagc agogtcatct ctgaatttga 480  
 gcaatggtga aacggaatct gtgaaaacca tgattgtcca tgatgatgta gaaagtgagc 540  
 cggccatgac cccatccaag gagggcactc taatcgtcog ccagactcag tccgctagta 600  
 gcacactcca gaaacacaaa tcttcctcct cttttacacc ttttatagac cccagattac 660  
 tacagatttc tccatctagc ggaacaacag tgacatctgt ggtgggattt tctgtgatg 720  
 ggatgagacc agaagccata aggcaagatc ctaccoggaa aggctcagtg gtcaatgtga 780  
 atcctaccaa cactaggcca cagagtgaac ccccgagat tctgtaaatac aagaagaggt 840  
 ttaactctga gattctgtgt gctgccttat ggggagtgaa tttgotagtg ggtacagaga 900  
 gtggcctgat gctgctggac agaagtggcc aagggaaggt ctatcctctt atcaaccgaa 960  
 gacgatitca acaaatggac gtacttgagg gcttgaatgt cttggtgaca atatctggca 1020  
 aaaaggataa gttacgtgtc tactatttgt cctgggttaag aaataaaata cttcacaatg 1080  
 atccagaggt tgagaagaag cagggatgga caaccgtagg ggatttggaa ggatgtgtac 1140  
 attataaagt tgtaaaatat gaaagaatca aatttctggt gattgctttg aagagttctg 1200  
 tggaagtcta tgcgtgggca ccaaagccat atcacaaatt tatggccttt aagtcatttg 1260  
 gagaattggt acataagcca ttactggttg atctcactgt tgaggaaggc cagaggttga 1320  
 aagtgatcta tggatcctgt gctggattcc atgctgttga tgtggattca ggatcagttc 1380  
 atgacattta tctaccaaca catatccagt gtagcatcaa accccatgca atcatcatcc 1440  
 tccccaatat agatggaatg gagcttcttg tgtgctatga agatgagggg gtttatgtaa 1500  
 acacatatgg aaggatcacc aaggatgtag ttctacagtg gggagagatg cctacatcag 1560  
 tagcatatat tcgatccaat cagacaatgg gctggggaga gaaggccata gagatccgat 1620  
 ctgtggaaac tggtcacttg gatggtgtgt tcatgcacaa aagggtcaa agactaaaat 1680

002270.69462960

tcttgtgtga acgcaatgac aagggtgttct ttgcctctgt togggtctggt ggcagcagtc 1740  
 aggtttattt catgacctta ggcaggactt ctcttctgag ctggtagaag cagtgtgac 1800  
 cagggattac tggcctccag agtcttcaag atcctgagaa cttggaattc cttgtaactg 1860  
 gagctcggag ctgcaccgag ggcaaccagg acagctgtgt gtgcagacct catgtgttgg 1920  
 gttctctccc ctcttctcctg ttctctttat ataccagttt atccccattc tttttttttt 1980  
 ttcttactcc aaaataaata aaggctgcaa tgcagctggt gctgttcaga ttct 2034

<210> 11290  
 <211> 425  
 <212> PRT  
 <213> Homo sapiens

<400> 11290  
 Met Ile Val His Asp Asp Val Glu Ser Glu Pro Ala Met Thr Pro Ser  
 1 5 10 15  
 Lys Glu Gly Thr Leu Ile Val Arg Gln Thr Gln Ser Ala Ser Ser Thr  
 20 25 30  
 Leu Gln Lys His Lys Ser Ser Ser Ser Phe Thr Pro Phe Ile Asp Pro  
 35 40 45  
 Arg Leu Leu Gln Ile Ser Pro Ser Ser Gly Thr Thr Val Thr Ser Val  
 50 55 60  
 Val Gly Phe Ser Cys Asp Gly Met Arg Pro Glu Ala Ile Arg Gln Asp  
 65 70 75 80  
 Pro Thr Arg Lys Gly Ser Val Val Asn Val Asn Pro Thr Asn Thr Arg  
 85 90 95  
 Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys Tyr Lys Lys Arg Phe Asn  
 100 105 110  
 Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val Asn Leu Leu Val Gly  
 115 120 125  
 Thr Glu Ser Gly Leu Met Leu Leu Asp Arg Ser Gly Gln Gly Lys Val  
 130 135 140  
 Tyr Pro Leu Ile Asn Arg Arg Arg Phe Gln Gln Met Asp Val Leu Glu  
 145 150 155 160  
 Gly Leu Asn Val Leu Val Thr Ile Ser Gly Lys Lys Asp Lys Leu Arg  
 165 170 175  
 Val Tyr Tyr Leu Ser Trp Leu Arg Asn Lys Ile Leu His Asn Asp Pro  
 180 185 190  
 Glu Val Glu Lys Lys Gln Gly Trp Thr Thr Val Gly Asp Leu Glu Gly  
 195 200 205  
 Cys Val His Tyr Lys Val Val Lys Tyr Glu Arg Ile Lys Phe Leu Val  
 210 215 220  
 Ile Ala Leu Lys Ser Ser Val Glu Val Tyr Ala Trp Ala Pro Lys Pro  
 225 230 235 240  
 Tyr His Lys Phe Met Ala Phe Lys Ser Phe Gly Glu Leu Val His Lys  
 245 250 255  
 Pro Leu Leu Val Asp Leu Thr Val Glu Glu Gly Gln Arg Leu Lys Val  
 260 265 270

000220.69462550

-4758/13211-

Ile Tyr Gly Ser Cys Ala Gly Phe His Ala Val Asp Val Asp Ser Gly  
275 280 285  
Ser Val Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys Ser Ile Lys  
290 295 300  
Pro His Ala Ile Ile Ile Leu Pro Asn Thr Asp Gly Met Glu Leu Leu  
305 310 315 320  
Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn Thr Tyr Gly Arg Ile  
325 330 335  
Thr Lys Asp Val Val Leu Gln Trp Gly Glu Met Pro Thr Ser Val Ala  
340 345 350  
Tyr Ile Arg Ser Asn Gln Thr Met Gly Trp Gly Glu Lys Ala Ile Glu  
355 360 365  
Ile Arg Ser Val Glu Thr Gly His Leu Asp Gly Val Phe Met His Lys  
370 375 380  
Arg Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg Asn Asp Lys Val Phe  
385 390 395 400  
Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln Val Tyr Phe Met Thr  
405 410 415  
Leu Gly Arg Thr Ser Leu Leu Ser Trp  
420 425

<210> 11291

<211> 1652

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (103).. (1380)

<400> 11291

gaagataatg tttgcttgcc cagcaatggc aaattatata caaaggtaat caactgggtg 60  
cagcgtagca tctgggagaa tggagacagt ctggaagagc tgatggaaga ggttcaaacc 120  
ttgtactact cagctgatca caagctgctt gatgggaacc tactagatgg acaggctgag 180  
gtgtttggca gtgatgatga ccacattcag tttgtgcaga aaaagccacc acgtgagaat 240  
ggccataagc agataagtag cagttcaact ggatgtctct ctctcctaaa tgctacagta 300  
caaagcccta agcatgagtg gaaaatcggt gcttcagaaa agacttcaaa taacacttac 360  
ttgtgccttg ctgtgctgga tggatatatt tgtgtcattt ttcttcatgg gagaaacagc 420  
ccacagagct caccaacaag tactccaaaa ctaagtaaga gttaagctt tgagatgcaa 480  
caagatgagc taatcgaaaa gccatgtct cctatgcagt acgcacgac tggtctggga 540  
acagcagaga tgaatggcaa actcatagct gcagggtggc ataacagaga ggaatgtctt 600  
cgaacagtcg aatgctataa tccacataca gatcactggc cctttcttgc tcccatgaga 660  
acaccaagag cccgatttca aatggctgta ctcatgggcc agctctatgt ggtaggtgga 720  
tcaaattggc actcagatga cctgagttgt ggagagatgt atgattcaaa catagatgac 780  
tggattcctg ttccagaatt gagaactaac cgttgtaatg caggagtgtg tgctctgaat 840  
ggaaagtatt acatcgttgg tggctctgat ccatatggtc aaaaaggact gaaaattgt 900  
gatgtatttg atcctgtaac aaagttgtgg acaagctgtg cccctcttaa cattcggaga 960

008220.69462960

caccagtctg cagtctgtga gcttggtggt tatttgtaca taatcggagg tgcagaatct 1020  
 tggaattgtc cgaacacagt agaacgatac aatcctgaaa ataatacctg gactttaatt 1080  
 gcacccatga atgtggctag gcgaggagct ggagtggctg ttcttaatgg aaaactgttt 1140  
 gtatgtggtg gctttgatgg ttctcatgcc atcagttgtg tggaaatgta tgatccaact 1200  
 agaaatgaat ggaagatgat gggaaatatg acttcaccaa ggagcaatgc tgggattgca 1260  
 actgtaggga acaccattta tgcagtggga ggattcgatg gcaatgaatt tctgaatacg 1320  
 gtggaagtct ataaccttga gtcaaatgaa tggagccctt atacaaagat tttccagttt 1380  
 taacaaattt aagaccctct caaactaaca ggcttagtga tgtaattatg gttagcagag 1440  
 gtacacttgt gaataaagag ggtgggtggg tatagatgtt gctaacagca acacaaagct 1500  
 tttgcatatt gcatactatt aaacatgctg tacatacttt ttgggtttat ttggaaagga 1560  
 atgcaaagat gaaggtctgt tttgtgtact ttttaagact tggttatitt actttttgga 1620  
 aaagaataaa ccaagaattg attgggcaca tc 1652

<210> 11292  
 <211> 426  
 <212> PRT  
 <213> Homo sapiens

<400> 11292  
 Met Glu Glu Val Gln Thr Leu Tyr Tyr Ser Ala Asp His Lys Leu Leu  
 1 5 10 15  
 Asp Gly Asn Leu Asp Gly Gln Ala Val Phe Gly Ser Asp Asp  
 20 25 30  
 Asp His Ile Gln Phe Val Gln Lys Pro Pro Arg Glu Asn Gly His  
 35 40 45  
 Lys Gln Ile Ser Ser Ser Thr Gly Cys Leu Ser Ser Pro Asn Ala  
 50 55 60  
 Thr Val Gln Ser Pro Lys His Glu Trp Lys Ile Val Ala Ser Glu Lys  
 65 70 75 80  
 Thr Ser Asn Asn Thr Tyr Leu Cys Leu Ala Val Leu Asp Gly Ile Phe  
 85 90 95  
 Cys Val Ile Phe Leu His Gly Arg Asn Ser Pro Gln Ser Ser Pro Thr  
 100 105 110  
 Ser Thr Pro Lys Leu Ser Lys Ser Leu Ser Phe Glu Met Gln Gln Asp  
 115 120 125  
 Glu Leu Ile Glu Lys Pro Met Ser Pro Met Gln Tyr Ala Arg Ser Gly  
 130 135 140  
 Leu Gly Thr Ala Glu Met Asn Gly Lys Leu Ile Ala Ala Gly Gly Tyr  
 145 150 155 160  
 Asn Arg Glu Glu Cys Leu Arg Thr Val Glu Cys Tyr Asn Pro His Thr  
 165 170 175  
 Asp His Trp Ser Phe Leu Ala Pro Met Arg Thr Pro Arg Ala Arg Phe  
 180 185 190  
 Gln Met Ala Val Leu Met Gly Gln Leu Tyr Val Val Gly Gly Ser Asn  
 195 200 205  
 Gly His Ser Asp Asp Leu Ser Cys Gly Glu Met Tyr Asp Ser Asn Ile  
 210 215 220

008220.69462960

Asp	Asp	Trp	Ile	Pro	Val	Pro	Glu	Leu	Arg	Thr	Asn	Arg	Cys	Asn	Ala
225					230					235					240
Gly	Val	Cys	Ala	Leu	Asn	Gly	Lys	Leu	Tyr	Ile	Val	Gly	Gly	Ser	Asp
				245					250					255	
Pro	Tyr	Gly	Gln	Lys	Gly	Leu	Lys	Asn	Cys	Asp	Val	Phe	Asp	Pro	Val
			260					265					270		
Thr	Lys	Leu	Trp	Thr	Ser	Cys	Ala	Pro	Leu	Asn	Ile	Arg	Arg	His	Gln
	275					280						285			
Ser	Ala	Val	Cys	Glu	Leu	Gly	Gly	Tyr	Leu	Tyr	Ile	Ile	Gly	Gly	Ala
290					295						300				
Glu	Ser	Trp	Asn	Cys	Pro	Asn	Thr	Val	Glu	Arg	Tyr	Asn	Pro	Glu	Asn
305				310						315					320
Asn	Thr	Trp	Thr	Leu	Ile	Ala	Pro	Met	Asn	Val	Ala	Arg	Arg	Gly	Ala
				325					330					335	
Gly	Val	Ala	Val	Leu	Asn	Gly	Lys	Leu	Phe	Val	Cys	Gly	Gly	Phe	Asp
			340					345					350		
Gly	Ser	His	Ala	Ile	Ser	Cys	Val	Glu	Met	Tyr	Asp	Pro	Thr	Arg	Asn
	355					360						365			
Glu	Trp	Lys	Met	Met	Gly	Asn	Met	Thr	Ser	Pro	Arg	Ser	Asn	Ala	Gly
370					375						380				
Ile	Ala	Thr	Val	Gly	Asn	Thr	Ile	Tyr	Ala	Val	Gly	Gly	Phe	Asp	Gly
385				390						395					400
Asn	Glu	Phe	Leu	Asn	Thr	Val	Glu	Val	Tyr	Asn	Leu	Glu	Ser	Asn	Glu
			405					410						415	
Trp	Ser	Pro	Tyr	Thr	Lys	Ile	Phe	Gln	Phe						
			420					425							

<210> 11293  
 <211> 1506  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (188).. (1165)

<400> 11293  
 agtcacctct tctcaaccct ttacctgggc agatcatttg aaagcacagg aagaagctca 60  
 aggtcttgtc cagcattgta gggcaacaga agttactttg cctaaaagta tacagagcct 120  
 tatctatttg ctccaccctg ctttgtcttg gctaccactg ttccctcgta ttggagctga 180  
 tagaaaaatg gctggaaaga caagtccttg gtcaaagat gcaaccctgc agcatgtttt 240  
 aatgagtgtc tggctctgtg gctttacttc tctatataat ttgctgaaga caaaactttg 300  
 cccctatttc tacgtttgta cctatcagtt tactgtcctg ttccgagcag caggattagc 360  
 tggaagtgtc ttaatcacag ctctcatatc tccaacaact cgagggttaa gagaagctat 420  
 gagaaatgaa ggtattgaat tttctctgcc ttttaataaaa gaaagtggcc ataagaagga 480  
 gacagcatct ggaacaagct tgggatattg ggaggagcaa gccatcagtg atgaggatga 540  
 agaggaaagt ttttcttgcc tggaagagat ggggtgtgcaa gataaaatta aaaagccaga 600

009220.69452960

```

catactttct atcaagctgc gtaaagagaa acatgaagta caaatggatc acagacctga 660
atctgttgtg ttggtaaaag gaatcaacac ctttacattg ctcaattttt tgattaactc 720
taagagttta gttgctacct cagggtccaca ggcaggactt cctccaacco tcttgtcccc 780
tgttgctttc cgagggtgcca caatgcaaat gcttaaggca cggagtgtga atgtgaagac 840
acaagctctt tctggataca gagaccaatt tagtttggag attacaggtc ctatcatgcc 900
tcattctctg cattcactga ccatgctgct caaatcttca cagagtggat ctttctctgc 960
agtactgtat ccacacgagc caactgctgt atttaacatc tgcttgcaaa tggacaaagt 1020
acttgatatg gaggttgttc ataaggagct tactaactgt ggtttgcacc ctaacactct 1080
ggagcaactt agtcaaatac cgttacttgg gaaatcatct ttacggaatg tgggtgctgag 1140
agactacatt tataattgga gatcctgaac accaaaatct ccatcaaagc agacacagga 1200
tgtttgcctg cagggggggag aaatacccag ttttaaatta tttccaccaa cttctgcaac 1260
aaataatgaa ttcaaggtgg gattagggtg agaggaaatt caaaaacgtg ctctcacctg 1320
acagatcttt cattgcagca gagaagttcc cagacctctt gtgctctttc tcctactgca 1380
acaagacctt taaaaaaaaa ttgttacta aataaatttc aaagcaccac tttaaaacaa 1440
agatccctct gtaggagtct gaacctcaaa atgtatgcct tcaaataaaa tcagcagatt 1500
cctagt 1506

```

<210> 11294  
 <211> 326  
 <212> PRT  
 <213> Homo sapiens

<400> 11294

Met	Ala	Gly	Lys	Thr	Ser	Pro	Trp	Ser	Asn	Asp	Ala	Thr	Leu	Gln	His
1				5					10					15	
Val	Leu	Met	Ser	Asp	Trp	Ser	Val	Ser	Phe	Thr	Ser	Leu	Tyr	Asn	Leu
			20					25					30		
Leu	Lys	Thr	Lys	Leu	Cys	Pro	Tyr	Phe	Tyr	Val	Cys	Thr	Tyr	Gln	Phe
		35					40					45			
Thr	Val	Leu	Phe	Arg	Ala	Ala	Gly	Leu	Ala	Gly	Ser	Asp	Leu	Ile	Thr
	50					55					60				
Ala	Leu	Ile	Ser	Pro	Thr	Arg	Gly	Leu	Arg	Glu	Ala	Met	Arg	Asn	
65					70				75					80	
Glu	Gly	Ile	Glu	Phe	Ser	Leu	Pro	Leu	Ile	Lys	Glu	Ser	Gly	His	Lys
				85					90					95	
Lys	Glu	Thr	Ala	Ser	Gly	Thr	Ser	Leu	Gly	Tyr	Gly	Glu	Glu	Gln	Ala
			100					105					110		
Ile	Ser	Asp	Glu	Asp	Glu	Glu	Glu	Ser	Phe	Ser	Trp	Leu	Glu	Glu	Met
		115					120					125			
Gly	Val	Gln	Asp	Lys	Ile	Lys	Lys	Pro	Asp	Ile	Leu	Ser	Ile	Lys	Leu
	130					135					140				
Arg	Lys	Glu	Lys	His	Glu	Val	Gln	Met	Asp	His	Arg	Pro	Glu	Ser	Val
145					150					155					160
Val	Leu	Val	Lys	Gly	Ile	Asn	Thr	Phe	Thr	Leu	Leu	Asn	Phe	Leu	Ile
				165					170					175	
Asn	Ser	Lys	Ser	Leu	Val	Ala	Thr	Ser	Gly	Pro	Gln	Ala	Gly	Leu	Pro
			180					185					190		

003220.69462960



-4762/13211-

Pro Thr Leu Leu Ser Pro Val Ala Phe Arg Gly Ala Thr Met Gln Met  
195 200 205  
Leu Lys Ala Arg Ser Val Asn Val Lys Thr Gln Ala Leu Ser Gly Tyr  
210 215 220  
Arg Asp Gln Phe Ser Leu Glu Ile Thr Gly Pro Ile Met Pro His Ser  
225 230 235 240  
Leu His Ser Leu Thr Met Leu Leu Lys Ser Ser Gln Ser Gly Ser Phe  
245 250 255  
Ser Ala Val Leu Tyr Pro His Glu Pro Thr Ala Val Phe Asn Ile Cys  
260 265 270  
Leu Gln Met Asp Lys Val Leu Asp Met Glu Val Val His Lys Glu Leu  
275 280 285  
Thr Asn Cys Gly Leu His Pro Asn Thr Leu Glu Gln Leu Ser Gln Ile  
290 295 300  
Pro Leu Leu Gly Lys Ser Ser Leu Arg Asn Val Val Leu Arg Asp Tyr  
305 310 315 320  
Ile Tyr Asn Trp Arg Ser  
325

<210> 11295  
<211> 858  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (37).. (591)

<400> 11295  
gagaccgtga ggctctggcc tgcagctcgc gccgccatgg acgctgccga ggtcgaattc 60  
ctcgccgaga aggagctggt taccattatc cccaacttca gtctggacaa gatctacctc 120  
atcggggggg acctggggcc ttttaaccct ggtttaccog tggaagtgcc cctgtggctg 180  
gcgattaacc tgaacaaaag acagaaatgt cgcctgctcc ctccagagtg gatggatgta 240  
gaaaagttag agaagatgag ggatcatgaa cgaaaggaag aaacttttac cccaatgccc 300  
agcccttact acatggaact tacgaagctc ctgttaaato atgottcaga caacatcccg 360  
aaggcagacg aaatccggac cctgggtcaag gatattgtggg acactcgtat agccaaactc 420  
cgagtgtctg ctgacagctt tgtgagacag caggaggcac atgccaagct ggataacttg 480  
accttgatgg agatcaacac cagcgggact ttcttcacac aagcgtcaa ccacatgtac 540  
aaactccgca cgaacctcca gcctctggag agtactcagt ctcaggactt ctagagaaaag 600  
gcctgggtgca ggcggttgc tgggggatgt gagcgctcag gacgtgatga ggtactcgtg 660  
gttctggagc tctagaaaca cttctgatgc atgaaaaatg tgtgatgggt caaggaatgg 720  
attcaggatg ttgttgaga aacaagtttg tgattagtc ttaaaactta gctccctggg 780  
acattcttca attccacatc tgtttctaga aaccagccct ttttcccccc acttttgaga 840  
aataaaaaag ccttaggt 858

<210> 11296

003220.69462960

-4763/13211-

<211> 185  
<212> PRT  
<213> Homo sapiens

<400> 11296

Met Asp Ala Ala Glu Val Glu Phe Leu Ala Glu Lys Glu Leu Val Thr  
1 5 10 15  
Ile Ile Pro Asn Phe Ser Leu Asp Lys Ile Tyr Leu Ile Gly Gly Asp  
20 25 30  
Leu Gly Pro Phe Asn Pro Gly Leu Pro Val Glu Val Pro Leu Trp Leu  
35 40 45  
Ala Ile Asn Leu Lys Gln Arg Gln Lys Cys Arg Leu Leu Pro Pro Glu  
50 55 60  
Trp Met Asp Val Glu Lys Leu Glu Lys Met Arg Asp His Glu Arg Lys  
65 70 75 80  
Glu Glu Thr Phe Thr Pro Met Pro Ser Pro Tyr Tyr Met Glu Leu Thr  
85 90 95  
Lys Leu Leu Leu Asn His Ala Ser Asp Asn Ile Pro Lys Ala Asp Glu  
100 105 110  
Ile Arg Thr Leu Val Lys Asp Met Trp Asp Thr Arg Ile Ala Lys Leu  
115 120 125  
Arg Val Ser Ala Asp Ser Phe Val Arg Gln Gln Glu Ala His Ala Lys  
130 135 140  
Leu Asp Asn Leu Thr Leu Met Glu Ile Asn Thr Ser Gly Thr Phe Leu  
145 150 155 160  
Thr Gln Ala Leu Asn His Met Tyr Lys Leu Arg Thr Asn Leu Gln Pro  
165 170 175  
Leu Glu Ser Thr Gln Ser Gln Asp Phe  
180 185

<210> 11297  
<211> 1564  
<212> DNA  
<213> Homo sapiens

<220>

<221> CDS

<222> (14).. (613)

<400> 11297

tctctaccog ggaatgtctc ggcgaaagca goggaaaccc caacagttaa tctcggactg 60  
cgaaggtccc agcgcgtctg agaacgggtga tgctagcgag gaggatcacc cccaagtctg 120  
tgccaagtgc tgcgcacaat tctactgacc aactgaattc ctgcgccacc agaacgcatg 180  
ttctactgac cctcctgtaa tgggtgataat tggggggccag gagaacccca acaactcttc 240  
ggcctcctct gaaccccggc ctgagggtca caataatcct caggtcatgg acacagagca 300  
tagcaacccc ccagattctg ggtcctccgt gccacggat cccacctggg gccagagag 360  
gagaggagag gagtcttcag ggcatttcct ggctgctgcc acagaaccag tatgtggcat 420

003220.6945960

```

tcctgtcaaa tggcctgccc atgaagccct ggaattccag ctccacctcc actaccactc 480
caagcctggc cccaccagtg ctgtttggcc taggaactgt ggctgggaag gtgcctccaa 540
caatgggatc cagggaagcc aaggagaaga cagccccct cctatttcag cctcctgcac 600
ccaaggcagt gcctgagaag cccatcatag acaagaagta gcaaaactgta cattccttct 660
tcctccccct gctccagaag gtgccggtac tgaagatgct ccagtaattg gtgacccaac 720
cctaggaagt agggagaaat gaaggaaggg cataggaaaa ttttcccagt aaatcccctg 780
atggtcacat taaggtaaag gttttggctg gtcagtgtgc caagacctct ccagcttctc 840
attcatgatg acctctcaaa gttagggaaac aagctgattt cttgccaaga ggtctcccag 900
gagatatttg ggaaatgtga agttcgtatc ttttaaggagc atttttggtc agcgtggttg 960
atgaactaat gatgagagag ttaaggaatg ttgctagaac atagggcttg ctggtacctc 1020
tgtgactaag aaaggacat gatgtaaggg aaaaggcctc aaattcttgt gaatgtggac 1080
attctcgtta atattctttt gggctaatag tgacatagtg tgcagaggtg taccagggat 1140
catgggggat ttccatagcac tagtatgctt ctagttttag ataactccct cctttattcc 1200
ctggccccct gtattttcct tatcttcctc tttcaagacc cctaccattt ttgcctatcc 1260
gtaggctggg gcttgtgtct ttgtcattgt ctggttctta agagtcccag actttgggag 1320
accagctcca ggtggcgtcc tccctgcctc tccgtcttgt aatgagttgt agtatttact 1380
cttaacatag gatcatttgg aacaggagtt ctgaggagga gagagtgagg gttttgctat 1440
tgactgactt gaacgatggc ttctcctcaa gctgtaggct ccagagcttc ctaacctagt 1500
aaaatgtgta gaacagacgg gagatattag tgtctttccc tctatcatta aaggtgtttt 1564
aacc

```

<210> 11298  
 <211> 200  
 <212> PRT  
 <213> Homo sapiens

<400> 11298

Met	Ser	Arg	Arg	Lys	Gln	Arg	Lys	Pro	Gln	Gln	Leu	Ile	Ser	Asp	Cys
1				5				10						15	
Glu	Gly	Pro	Ser	Ala	Ser	Glu	Asn	Gly	Asp	Ala	Ser	Glu	Glu	Asp	His
			20					25					30		
Pro	Gln	Val	Cys	Ala	Lys	Cys	Cys	Ala	Gln	Phe	Thr	Asp	Pro	Thr	Glu
			35				40					45			
Phe	Leu	Ala	His	Gln	Asn	Ala	Cys	Ser	Thr	Asp	Pro	Pro	Val	Met	Val
			50			55				60					
Ile	Ile	Gly	Gly	Gln	Glu	Asn	Pro	Asn	Asn	Ser	Ser	Ala	Ser	Ser	Glu
					70					75				80	
Pro	Arg	Pro	Glu	Gly	His	Asn	Asn	Pro	Gln	Val	Met	Asp	Thr	Glu	His
					85				90					95	
Ser	Asn	Pro	Pro	Asp	Ser	Gly	Ser	Ser	Val	Pro	Thr	Asp	Pro	Thr	Trp
			100					105				110			
Gly	Pro	Glu	Arg	Arg	Gly	Glu	Glu	Ser	Ser	Gly	His	Phe	Leu	Val	Ala
			115				120					125			
Ala	Thr	Glu	Pro	Val	Cys	Gly	Ile	Pro	Val	Lys	Trp	Pro	Ala	His	Glu
			130			135					140				
Ala	Leu	Glu	Phe	Gln	Leu	His	Leu	His	Tyr	His	Ser	Lys	Pro	Gly	Pro
145					150				155						160

09629469.072800

Thr Ser Ala Val Trp Pro Arg Asn Cys Gly Trp Glu Gly Ala Ser Asn  
 165 170 175  
 Asn Gly Ile Gln Gly Ser Gln Gly Glu Asp Ser Pro Pro Pro Ile Ser  
 180 185 190  
 Ala Ser Cys Thr Gln Gly Ser Ala  
 195 200

<210> 11299  
 <211> 2495  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (112)..(1137)

<400> 11299  
 gtagtgacgg ggattgttgt gttgcagaaa tccggcaatc gacctgagga cttgcgagcc 60  
 gctcagctcc cgggacgttt ggagctgctg ctaaataatt tctgctcagc catgtcgcgc 120  
 gctccagatg cagccccggc tcctgcgtcg atctccctgt ttgacctcag cgcggatgct 180  
 ccggtctttc agggcctgag cctgggtgagc caccgcgcctg gggaggctct ggccccgggt 240  
 ccgcgtactt cctgttcagg ctcaggggag agagaaagcc cagaaagaaa gctactccag 300  
 ggtcctatgg atatttcaga gaagttattt tgttcaactt gtgaccagac cttccagaac 360  
 caccaagaac agaggaaca ttataagctt gactggcatc ggtttaacct aaagcaacgt 420  
 ctcaaggaca agcctctcct gtctgccctg gactttgaaa agcagagctc cacaggagat 480  
 ctttccagca tctcgggac agaaagactca gactcagcca gtgaggagga cttgcagaca 540  
 ctggatcggg agagggctac atttgagaag ttgagccgac cccaggctt ttaccctcat 600  
 cgagtcttt tccagaatgc ccagggccag tttctttatg cctaccgctg tgtcctagga 660  
 cctcatcagg atccccaga agaggcagaa ctgctgctac agaacctgca aagtagaggt 720  
 cccagagact gcgtgggtgt catggctgca gctgggcaat ttgctgggtg tatatttcaa 780  
 ggaagagaag tggtagacac caaaactttt caccgctata cggttcgggc caagcggggc 840  
 acagcccagg ggcttcggga tgcccagggt gggccatcac actctgctgg agccaacctg 900  
 aggcgctaca atgaagccac actatataag gatgttctgt acctgctggc agggccaagc 960  
 tgggctaagg cgctggagga ggctggtaca atactgttgc gtgctccccg ctctggcccg 1020  
 tctttgttct ttggaggcaa gggagcacc ctgcaaagg ggatccccga ctttgggata 1080  
 tccccctgc caccgcaga cccaccttc aagagctaca gcgtgtgctc cataagctga 1140  
 ccactttgca tgtctatgaa gaagaccctc gggaagcagt cagactgcac tcacctcaga 1200  
 cacactggaa aacagtaaga gaggagagaa agaagcctac tgaggaagaa ataagaaaga 1260  
 tctgcaggga tgaaaaggaa gcgctggggc agaattgagga atctccaaa cagggttcag 1320  
 ggtcggaggg agaagatggc tttcaggtag agttggagct agtggagttg actgtgggga 1380  
 ctctggatct ttgtgagtct gaagtattgc ccaagcggag gaggagaaaa aggaataaga 1440  
 aggagaaaag ccgagaccag gaggctgggg cacatcggac tcttctccag caaactcaag 1500  
 aagaggagcc ttccacacag tcatcccagg cagttgctgc ccccttgggc cctttgctgg 1560  
 atgaggccaa agcccctggt cagccagagc tctggaatgc actgcttgct gcttgccgag 1620  
 ctggagatgt tggagtgcta aagctgcagc tagctccag ccctgcagac cctagagttc 1680  
 tgtctctgct cagtgccccc ttgggctccg gtggctttac tctcctgcat gcagcagctg 1740  
 cagctggaag aggctcagtg gttcgtctgc tgctggaagc aggtgctgac cccactgtgc 1800

09629469.072300

```

aggactctcg ggccccggcca ccttatactg ttgcggctga caaatcaaca cgtaatgagt 1860
tccgaagggt catggagaag aatccagatg cctacgatta caacaaggct caggtgccag 1920
gaccattgac accagaaatg gaggcacggc aggctacacg gaaaaggag cagaaggcag 1980
cccgcgcgca acgggaggaa cagcagcaga ggcagcagga gcaggaggag cgtgaacgag 2040
aagagcagcg gcgatttgcc gccctcagtg accgagagaa gagagctctg gctgcagagc 2100
gccgactcgc tgcccagttg ggagccccta cctctccaat cctgactct gcaatcgtca 2160
atactcgacg ctgctggagt tgtggggcat cctccaagg cctgactccc ttctactacc 2220
tcgacttctc tttctgtcc acacgttgcc tccaggatca tcgccgtcag gcaggggaggc 2280
cctcttcctg atctcttaca gctctacctg gggccaactc agggacctga gagggcacat 2340
tcacagcagc cctaggtttt ttcttccccg tgaaccaga gatgatttgg aagatggggg 2400
tgaaggacac tcgggaacta gggcaaagac agggctagag gtatgtggag ctggtactgt 2460
ctctggaatt ttaatcacia taaagtttgg caagg 2495

```

<210> 11300  
 <211> 342  
 <212> PRT  
 <213> Homo sapiens

<400> 11300

Met	Ser	Pro	Ala	Pro	Asp	Ala	Ala	Pro	Ala	Pro	Ala	Ser	Ile	Ser	Leu
1				5					10					15	
Phe	Asp	Leu	Ser	Ala	Asp	Ala	Pro	Val	Phe	Gln	Gly	Leu	Ser	Leu	Val
		20					25						30		
Ser	His	Ala	Pro	Gly	Glu	Ala	Leu	Ala	Arg	Ala	Pro	Arg	Thr	Ser	Cys
		35				40						45			
Ser	Gly	Ser	Gly	Glu	Arg	Glu	Ser	Pro	Glu	Arg	Lys	Leu	Leu	Gln	Gly
	50					55					60				
Pro	Met	Asp	Ile	Ser	Glu	Lys	Leu	Phe	Cys	Ser	Thr	Cys	Asp	Gln	Thr
	65				70					75				80	
Phe	Gln	Asn	His	Gln	Glu	Gln	Arg	Glu	His	Tyr	Lys	Leu	Asp	Trp	His
			85						90					95	
Arg	Phe	Asn	Leu	Lys	Gln	Arg	Leu	Lys	Asp	Lys	Pro	Leu	Leu	Ser	Ala
			100						105				110		
Leu	Asp	Phe	Glu	Lys	Gln	Ser	Ser	Thr	Gly	Asp	Leu	Ser	Ser	Ile	Ser
		115					120					125			
Gly	Ser	Glu	Asp	Ser	Asp	Ser	Ala	Ser	Glu	Glu	Asp	Leu	Gln	Thr	Leu
		130				135					140				
Asp	Arg	Glu	Arg	Ala	Thr	Phe	Glu	Lys	Leu	Ser	Arg	Pro	Pro	Gly	Phe
	145				150					155				160	
Tyr	Pro	His	Arg	Val	Leu	Phe	Gln	Asn	Ala	Gln	Gly	Gln	Phe	Leu	Tyr
			165						170					175	
Ala	Tyr	Arg	Cys	Val	Leu	Gly	Pro	His	Gln	Asp	Pro	Pro	Glu	Glu	Ala
			180					185					190		
Glu	Leu	Leu	Leu	Gln	Asn	Leu	Gln	Ser	Arg	Gly	Pro	Arg	Asp	Cys	Val
		195				200						205			
Val	Leu	Met	Ala	Ala	Ala	Gly	His	Phe	Ala	Gly	Ala	Ile	Phe	Gln	Gly
	210					215					220				

09629469.072800

Arg Glu Val Val Thr His Lys Thr Phe His Arg Tyr Thr Val Arg Ala  
 225 230 235 240  
 Lys Arg Gly Thr Ala Gln Gly Leu Arg Asp Ala Arg Gly Gly Pro Ser  
 245 250 255  
 His Ser Ala Gly Ala Asn Leu Arg Arg Tyr Asn Glu Ala Thr Leu Tyr  
 260 265 270  
 Lys Asp Val Arg Asp Leu Leu Ala Gly Pro Ser Trp Ala Lys Ala Leu  
 275 280 285  
 Glu Glu Ala Gly Thr Ile Leu Leu Arg Ala Pro Arg Ser Gly Arg Ser  
 290 295 300  
 Leu Phe Phe Gly Gly Lys Gly Ala Pro Leu Gln Arg Gly Ile Pro Asp  
 305 310 315 320  
 Phe Gly Ile Ser Pro Ser Pro Pro Ala Asp Pro Pro Ser Lys Ser Tyr  
 325 330 335  
 Ser Val Cys Ser Ile Ser  
 340

<210> 11301  
 <211> 2021  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (903).. (1697)

<400> 11301  
 gcatacatga caaaatgtgg ccacagcttt tgctacaagt gtattcatca gagtttggag 60  
 gacaataata gatgtcccaa gtgtaactat gttgtggaca atattaacca tctgtatcct 120  
 aatttcttgg tgaatgaact cattcttaaa cagaagcaaa gatttgagga aaagagggtc 180  
 aaattggacc actcagtgag tagcaccaat ggccacaggt ggcagatatt tcaagattgg 240  
 ttgggaaactg accaagataa ccttgatttg gccaatgtca atcttatgtt ggagttacta 300  
 gtgcagaaga agaaacaact ggaagcagaa tcacatgcag cccaactaca gattcttatg 360  
 gaattcctca aggttgcaag aagaaataag agagaggaaa tgagtggott atactctcct 420  
 gtcagtgagg atagcacagt gcctcaattt gaagctcctt ctccatcaca cagtagtatt 480  
 attgattcca cagaatacag ccaacctcca ggtttcagtg gcagttctca gacaaagaaa 540  
 cagccttgggt ataatagcac gtttagcatca agacgaaaac gacttactgc tcattttgaa 600  
 gacttggagc agtgttactt ttctacaagg atgtctcgta tctcagatga cagtcgaact 660  
 gcaagccagt tggatgaatt tcaggaatgc ttgtccaagt ttactcgata taattcagta 720  
 cgacctttag ccacattgtc atatgctagt gatctctata atggttccag tatagtctct 780  
 agtattgaat ttgaccggga ttgtgactat ttgtcgattg ctggagttac aagaagatta 840  
 aagtctatga atatgacact gtcattccagg atgcagtggg tattcattac cctgagaatg 900  
 aaatgacctg caattcgaaa atcagctgta tcagttggag tagttaccat aagaacctgt 960  
 tagctagcag tgattatgaa ggcactgtta ttttatggga tggattcaca ggacagaggt 1020  
 caaaggctca tcaggagcat gagaagaggt gttggagtgt tgactttaat ttgatggatc 1080  
 ctaaaactctt ggcttcaggt tctgatgatg caaaagtga gctgtgggtc accaatctag 1140  
 acaactcagt ggcaagcatt gaggcaaagg ctaatgtgtg ctgtgttaaa ttcagcccct 1200

009220.69462960

```

ottccagata ccatttggct ttccggctgtg cagatcactg tgtccactac tatgatcttc 1260
gtaacactaa acagccaatc atgggtattoa aaggacaccg taaagcagtc tcttatgcaa 1320
agtttgtgag tgggtaggaa attgtctctg cctcaacaga cagtcagcta aaactgtgga 1380
atgtagggaa accatactgc ctacgttcct tcaagggtoa tatcaatgaa aaaaactttg 1440
taggcctggc ttccaatgga gattatatag ctgttggaag tgaaaataac tctctctacc 1500
tgtactataa aggactttct aagactttgc taacttttaa gtttgataca gtcaaaagtg 1560
ttctcgacaa agaccgaaaa gaagatgata caaatgaatt tgtagtgct gtgtgctgga 1620
gggcactacc agatggggag tccaatgtgc tgattgtgc taacagtcag ggtacaatta 1680
aggtgctaga attggtatga agggttaact caagtoaat tgtacttgat cctgctgaaa 1740
tacatctgca gctgacaatg agagaagaaa cagaaaatgt catgtgatgt ctctcccaa 1800
agtcatcatg ggttttggat ttgttttgaa ttttttttc ttttttctt ttccctcctt 1860
tatgaccttt gggacattgg gaatacccag ccaactctcc accatcaatg taactccatg 1920
gacattgctg ctcttggtgg tgttatctaa ttttgtgat agggaaacaa attcttttga 1980
ataaaaataa ataacaaaac aataaaaagtt tattgagcca c 2021

```

<210> 11302  
 <211> 265  
 <212> PRT  
 <213> Homo sapiens

<400> 11302

Met	Thr	Cys	Asn	Ser	Lys	Ile	Ser	Cys	Ile	Ser	Trp	Ser	Ser	Tyr	His
1				5				10						15	
Lys	Asn	Leu	Leu	Ala	Ser	Ser	Asp	Tyr	Glu	Gly	Thr	Val	Ile	Leu	Trp
		20					25						30		
Asp	Gly	Phe	Thr	Gly	Gln	Arg	Ser	Lys	Val	Tyr	Gln	Glu	His	Glu	Lys
		35					40					45			
Arg	Cys	Trp	Ser	Val	Asp	Phe	Asn	Leu	Met	Asp	Pro	Lys	Leu	Leu	Ala
	50					55					60				
Ser	Gly	Ser	Asp	Asp	Ala	Lys	Val	Lys	Leu	Trp	Ser	Thr	Asn	Leu	Asp
	65				70					75				80	
Asn	Ser	Val	Ala	Ser	Ile	Glu	Ala	Lys	Ala	Asn	Val	Cys	Cys	Val	Lys
				85					90					95	
Phe	Ser	Pro	Ser	Ser	Arg	Tyr	His	Leu	Ala	Phe	Gly	Cys	Ala	Asp	His
			100					105					110		
Cys	Val	His	Tyr	Tyr	Asp	Leu	Arg	Asn	Thr	Lys	Gln	Pro	Ile	Met	Val
		115					120					125			
Phe	Lys	Gly	His	Arg	Lys	Ala	Val	Ser	Tyr	Ala	Lys	Phe	Val	Ser	Gly
	130					135					140				
Glu	Glu	Ile	Val	Ser	Ala	Ser	Thr	Asp	Ser	Gln	Leu	Lys	Leu	Trp	Asn
	145				150					155				160	
Val	Gly	Lys	Pro	Tyr	Cys	Leu	Arg	Ser	Phe	Lys	Gly	His	Ile	Asn	Glu
				165					170					175	
Lys	Asn	Phe	Val	Gly	Leu	Ala	Ser	Asn	Gly	Asp	Tyr	Ile	Ala	Cys	Gly
		180						185					190		
Ser	Glu	Asn	Asn	Ser	Leu	Tyr	Leu	Tyr	Tyr	Lys	Gly	Leu	Ser	Lys	Thr
		195					200					205			

009270.69462960

Leu	Leu	Thr	Phe	Lys	Phe	Asp	Thr	Val	Lys	Ser	Val	Leu	Asp	Lys	Asp
210						215					220				
Arg	Lys	Glu	Asp	Asp	Thr	Asn	Glu	Phe	Val	Ser	Ala	Val	Cys	Trp	Arg
225					230					235					240
Ala	Leu	Pro	Asp	Gly	Glu	Ser	Asn	Val	Leu	Ile	Ala	Ala	Asn	Ser	Gln
				245					250					255	
Gly	Thr	Ile	Lys	Val	Leu	Glu	Leu	Val							
			260					265							

<210> 11303  
 <211> 1985  
 <212> DNA  
 <213> Homo sapiens

<400> 11303

ggcctactgg	ctattctgta	aatgttcaat	gaactagaga	atgattcttg	ggtagttaat	60
attgtcaatg	ttgatgaact	cttttccttc	gctgaaagca	gotactttgt	tggaggtttc	120
aattctgcgt	ggcaatttgc	agcatttcta	gtggtactgc	tcacacattt	acagctttat	180
gaagaagggtg	tttacttttt	ttgaaattac	cttgagacat	ttcaaaactgt	gcagaagata	240
tatgcacaaa	agcaaattgc	ttgcagtttg	ctatagccac	ttatcatcat	ctggctcttg	300
aatagcttta	attcagctgt	tgaatctcac	ttgaatttga	gcaaaacctt	catctttata	360
tgtatctgga	caaattactt	caattgcttg	acagtaatga	ccaatcaatt	tatttaaaat	420
agtatcattt	agtaggacag	tgtttttctc	tggtttgagc	aacgaattca	accagtcctc	480
tgggttgatc	atcatcatca	tcatcatttg	gttatcagtt	cctgagttat	ttttaccagg	540
gagttttata	ccttttagaca	gctattttga	attatctcag	gaatgtcata	tatctctgcc	600
tcttttagagt	cagtcactgg	cacttttgtct	gtttgggtgac	atcatgtttc	cctgactgtt	660
cttcatcttt	gtagttatac	attgatatac	gtgcattgaa	tatgtaggta	tttataaaca	720
gtctttgcaa	tctggctttg	tctgtgattg	tccttgtata	gtaggctctgt	ccagaaattg	780
taagcatact	gtcttttttg	gtcttttaagc	ccgtgaacgc	tacagcccgt	gtagtgccaa	840
atggtgccct	aagcccagggt	tccctgcagt	ccactctgtg	atttgtttgt	tgactgctgt	900
gagccccacc	cccattcttt	gttttctaatt	tacacctagc	aggotaacco	tgctgggcacc	960
tgcagtgcct	ccaggggggaa	aggaccatag	tgtgcccctg	tgaagagtct	cagaatgggtg	1020
cggaagggtga	atgcccacct	cccactctct	tttcccactg	tagaaactga	ttccagagaa	1080
attctccaag	tgcggtgcta	tgtggggcttg	cgggagagggt	gttatgatca	aacagaacca	1140
ttctctttac	ctctgatcat	ggtttttctt	ggctctgtgg	tcacagttagt	tgctcacagct	1200
tcactcccaa	tttctgggat	attcagggca	ataatcttgc	cactgggtat	ttgctagtgt	1260
aaattatgtg	gtagggagag	aagccagtaa	gtttcactcc	tccgtttggc	tgatgtcact	1320
ctcgaattct	gtactttcat	acggattgta	atagggaggg	tctaaaagga	agcttcagtt	1380
ttggattttt	agagcttctt	ctaagtacaa	ttgttgaatc	aagaggtaaa	aatgggtatgt	1440
tataactgga	aatacgtga	gattaaaaag	gagataaatt	agccccattg	ggacagtgtc	1500
attgggaatg	tgaattgata	ccactttcct	ggagtctagt	ttagtatatta	ttttatatgt	1560
aatgcctgaa	aagatgtgtg	tctcctttga	ctcaatactt	ataggaattt	acacaaaagg	1620
tttaaatcaa	gattatagaa	ctgtttatact	ggaaaaaacac	gaaatattct	aattatgaat	1680
taattgggga	ttggttaaat	aaactatgggt	ttgatatgct	ctaaaaataa	tgttacagaa	1740
aaaagtgtac	tgatatggca	aaatgtatga	cttatagtta	aaaaagcagg	ttagatgttg	1800
atagatacag	tatgatagaa	aaagatcagg	aaggatatatg	ctgacattta	aatctgggata	1860
tttatgagtg	ttttttttat	ttcaatcttt	gtacatgcat	gtattttcta	gaaattgtat	1920

09629469.072600



tactatcttt gtaataaagt aaattatfff taagggacaa aaaaaaaaaa aaaaaggcca 1980  
catgt 1985

<210> 11304  
<211> 1673  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (9).. (1334)

<400> 11304  
aaacagacat ggccggcgaa ggagatcagc aggacgctgc gcacaacatg ggcaaccacc 60  
tgccgctcct gcctgcagag agtgaggaag aagatgaaat ggaagttgaa gaccaggata 120  
gtaaagaagc caaaaaacca aacatcataa attttgacac cagtctgccg acatcacata 180  
catacctagg tgctgatatg gaagaatttc atggcaggac ttgacacgat gacgacagct 240  
gtcaggtgat tccagttcct ccacaagtga tgatgatcct gattcccgga cagacattac 300  
ctcttcagct ttttcaccct caagaagtca gtatggtgag gaatttaatt cagaaagata 360  
gaacctttgc tgttcttgca tacagcaatg tacaggaaag ggaagcacag tttggaacaa 420  
cagcagagat atatgcctat cgagaagaac aggatttttg aattgagata gtgaaagtga 480  
aagcaattgg aagacaaagg ttcaaagtcc ttgagctaag aacacagtca gatggaatcc 540  
agcaagctaa agtgcaaatt cttcccgaat gtgtgttgcc ttcaaccatg tctgcagttc 600  
aattagaatc cctcaataag tgccagatat ttctttcaaa acctgtctca agagaagacc 660  
aatgttcata taaatgggtg cagaaatacc agaagagaaa gtttcattgt gcaaatctaa 720  
cttcgtggcc tcgctggctg tattccttat atgatgctga gaccttaatg gacagaatca 780  
agaaacagct acgtgaatgg gatgaaaatc taaaagatga ttctcttctt tcaaatccaa 840  
tagatttttc ttacagagta gctgcttgct ttcttattga tgatgtattg agaattcagc 900  
tccttaaaaat tggcagtgct atccagcgac ttcgctgtga attagacatt atgaataaat 960  
gtacttccct ttgctgtaaa caatgtcaag aaacagaaat aacaaccaa aatgaaatat 1020  
tcagttttatc cttatgtggg ccgatggcag cttatgtgaa tcctcatgga tatgtgcatg 1080  
agacacttac tgtgtataag gcttgcaact tgaatctgat aggccggcct tctacagaac 1140  
acagctgggt tcctgggtat gcctggactg ttgcccagtg taagatctgt gcaagccata 1200  
ttggatggaa gtttacggcc accaaaaaag acatgtcacc tcaaaaattt tggggcttaa 1260  
cgcatctgc tctgttgccc acgatcccag acactgaaga tgaaataagt ccagacaaag 1320  
taatactttg cttgtaaaca gatgtgatag agataaagtt agttatctaa caaattgggt 1380  
atattctaag atctgctttg gaaattattg cctctgatac atacctaatg aaacataaca 1440  
ttaataccta agtaaacata acattacttg gagggttgca gtttctaagt gaaactgtat 1500  
ttgaaacttt taagtatact ttaggaaaca agcatgaacg gcagtctaga ataccagaaa 1560  
catctacttg ggtagcttg tgccattatc ctgtggaatc tgatatgtct ggtagcatgt 1620  
cattgatggg acatgaagac atctttggaa atgatgatg tatttcctgt gtt 1673

<210> 11305  
<211> 442  
<212> PRT  
<213> Homo sapiens

<400> 11305

Met	Ala	Gly	Glu	Gly	Asp	Gln	Gln	Asp	Ala	Ala	His	Asn	Met	Gly	Asn
1				5				10					15		
His	Leu	Pro	Leu	Leu	Pro	Ala	Glu	Ser	Glu	Glu	Glu	Asp	Glu	Met	Glu
			20					25					30		
Val	Glu	Asp	Gln	Asp	Ser	Lys	Glu	Ala	Lys	Lys	Pro	Asn	Ile	Ile	Asn
		35					40					45			
Phe	Asp	Thr	Ser	Leu	Pro	Thr	Ser	His	Thr	Tyr	Leu	Gly	Ala	Asp	Met
	50					55					60				
Glu	Glu	Phe	His	Gly	Arg	Thr	Leu	His	Asp	Asp	Asp	Ser	Cys	Gln	Val
65					70				75						80
Ile	Pro	Val	Leu	Pro	Gln	Val	Met	Met	Ile	Leu	Ile	Pro	Gly	Gln	Thr
				85				90					95		
Leu	Pro	Leu	Gln	Leu	Phe	His	Pro	Gln	Glu	Val	Ser	Met	Val	Arg	Asn
			100					105					110		
Leu	Ile	Gln	Lys	Asp	Arg	Thr	Phe	Ala	Val	Leu	Ala	Tyr	Ser	Asn	Val
		115					120					125			
Gln	Glu	Arg	Glu	Ala	Gln	Phe	Gly	Thr	Thr	Ala	Glu	Ile	Tyr	Ala	Tyr
	130					135					140				
Arg	Glu	Glu	Gln	Asp	Phe	Gly	Ile	Glu	Ile	Val	Lys	Val	Lys	Ala	Ile
145					150					155					160
Gly	Arg	Gln	Arg	Phe	Lys	Val	Leu	Glu	Leu	Arg	Thr	Gln	Ser	Asp	Gly
			165					170					175		
Ile	Gln	Gln	Ala	Lys	Val	Gln	Ile	Leu	Pro	Glu	Cys	Val	Leu	Pro	Ser
		180					185						190		
Thr	Met	Ser	Ala	Val	Gln	Leu	Glu	Ser	Leu	Asn	Lys	Cys	Gln	Ile	Phe
		195				200						205			
Pro	Ser	Lys	Pro	Val	Ser	Arg	Glu	Asp	Gln	Cys	Ser	Tyr	Lys	Trp	Trp
	210					215					220				
Gln	Lys	Tyr	Gln	Lys	Arg	Lys	Phe	His	Cys	Ala	Asn	Leu	Thr	Ser	Trp
225					230					235					240
Pro	Arg	Trp	Leu	Tyr	Ser	Leu	Tyr	Asp	Ala	Glu	Thr	Leu	Met	Asp	Arg
			245						250					255	
Ile	Lys	Lys	Gln	Leu	Arg	Glu	Trp	Asp	Glu	Asn	Leu	Lys	Asp	Asp	Ser
			260					265					270		
Leu	Pro	Ser	Asn	Pro	Ile	Asp	Phe	Ser	Tyr	Arg	Val	Ala	Ala	Cys	Leu
		275					280					285			
Pro	Ile	Asp	Asp	Val	Leu	Arg	Ile	Gln	Leu	Leu	Lys	Ile	Gly	Ser	Ala
	290					295					300				
Ile	Gln	Arg	Leu	Arg	Cys	Glu	Leu	Asp	Ile	Met	Asn	Lys	Cys	Thr	Ser
305					310					315					320
Leu	Cys	Cys	Lys	Gln	Cys	Gln	Glu	Thr	Glu	Ile	Thr	Thr	Lys	Asn	Glu
			325						330					335	
Ile	Phe	Ser	Leu	Ser	Leu	Cys	Gly	Pro	Met	Ala	Ala	Tyr	Val	Asn	Pro
		340					345						350		
His	Gly	Tyr	Val	His	Glu	Thr	Leu	Thr	Val	Tyr	Lys	Ala	Cys	Asn	Leu
		355					360					365			

009220 69462960

Asn Leu Ile Gly Arg Pro Ser Thr Glu His Ser Trp Phe Pro Gly Tyr  
 370 375 380  
 Ala Trp Thr Val Ala Gln Cys Lys Ile Cys Ala Ser His Ile Gly Trp  
 385 390 395 400  
 Lys Phe Thr Ala Thr Lys Lys Asp Met Ser Pro Gln Lys Phe Trp Gly  
 405 410 415  
 Leu Thr Arg Ser Ala Leu Leu Pro Thr Ile Pro Asp Thr Glu Asp Glu  
 420 425 430  
 Ile Ser Pro Asp Lys Val Ile Leu Cys Leu  
 435 440

<210> 11306  
 <211> 1973  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (156).. (764)

<400> 11306  
 agccgccgcc tcgccgcttc ccctcgtcgg agcggccgct cgtccgcccc gcttgaggcc 60  
 cgcgggggagc gcggcgcaat tcgtcggccc gcggggggggc ggccctcccg catcttcgcg 120  
 gcgaccaagg actaccagga aggggagcgg ctgggatggc gcgtccgccc ccccgcgagt 180  
 acaaagcggg cgacctggtc ttgcgcaaga tgaagggcta ccgcactgg ccggcccggg 240  
 ttgatgaact ccagaggggc gctgtgaagc ctccagcaaa caagtatcct atcttctttt 300  
 ttggcaccca tgaaactgca tttctaggtc ccaaagacct ttttccatat aaggagtaca 360  
 aagacaagtt tggaaagtca aacaaacgga aaggatttaa cgaaggattg tgggaaatag 420  
 aaaataaccc aggagttaaag tttactggct accaggcaat tcagcaacag agctcttcag 480  
 aaactgaggg agaaggtgga aatactgcag atgcaagcag tgaggaagaa ggtgatagag 540  
 tagaagaaga tggaaaaggc aaaagaaaga atgaaaaagc aggcataaaa cggaaaaagt 600  
 catatacttc aaagaaatcc tctaaacagt cccggaaatc tccaggagat gaagatgaca 660  
 aagactgcaa agaagaggaa aacaaaagca gctctgaggg tggagatgcg ggcaacgaca 720  
 caagaaacac aacttcagac ttgcagaaaa ccagtgaagg gacctaaacta ccataatgaa 780  
 tgctgcatat taagagaaac cacaagaagg ttatatgttt ggttgtctaa tattcttgga 840  
 tttgatatga accaacacat agtccttggt gtcattgaca gaaccccgat ttgtatgtac 900  
 attattcata ttctctcttg ttgtgtttcg gggggaaaaag acatttttagc ctttttttaa 960  
 agttactgat ttaatttcat gttattttggt tgcatgaagt tgcccttaac cactaaggat 1020  
 tatcaagatt tttgcgcaga cttatacatg tctaggatcc ttttatcaag gcagttatga 1080  
 tcacgttttt cctgccttga cccaccatc atcaaacact cagttaaata taaattaaca 1140  
 ttttttagat gaccactcaa cataatgctt aagaatggaa tttcctctct gtgacagaac 1200  
 ccaggaatta attcctaaat acataacggt ggtatattga agacgaaatt aaaattgtcc 1260  
 ttcagttttg aggccatgtg taaagtttaa ccataattgta aaatatctat tccgtattag 1320  
 aaatagctag ttgacagctt atacttctca aaattcatat tgttatgtac acaaaactaag 1380  
 tttctatatg tgaagttagt gagtcttttt gtgttactcc aaaataaagg caatgattta 1440  
 tttttttccc agtgccaata caattttgag ctaagcactc aaggtggata ctttacattt 1500  
 taaagctgga atcagcaaca gccctatggg aaaccagaca aagcattgac ttttaaattgt 1560

09629469.072300

```

agacttttaa aataaactgt tttcttttgg aactacaatt agaatagtta atattcatcc 1620
ttaaaccatt attatgtgta cattattgtt gctattgtga taatagagaa ttttatttat 1680
ttttatgcca gcttatattg tgagaacaca tttagtcagt ttgggtttta tcaatcctgt 1740
taatgcttgt ccttggaaca tctttcgcgt attcacgggt ttagttgaa aagtttactg 1800
taaaaaaatc aaaaacaaaa aaatgtattg tttttacaga ataaatttat tgggatgtgt 1860
actgggagta agatttgagg ttgtaagcaa actaagttag tgtaatttgg cttcatatat 1920
gtaacgtgag gtattaatgt aattcatata ttaaagcaaa aattgttcgc agc 1973

```

<210> 11307  
 <211> 203  
 <212> PRT  
 <213> Homo sapiens

<400> 11307

Met	Ala	Arg	Pro	Arg	Pro	Arg	Glu	Tyr	Lys	Ala	Gly	Asp	Leu	Val	Phe
1				5					10					15	
Ala	Lys	Met	Lys	Gly	Tyr	Pro	His	Trp	Pro	Ala	Arg	Ile	Asp	Glu	Leu
			20					25					30		
Pro	Glu	Gly	Ala	Val	Lys	Pro	Pro	Ala	Asn	Lys	Tyr	Pro	Ile	Phe	Phe
		35					40					45			
Phe	Gly	Thr	His	Glu	Thr	Ala	Phe	Leu	Gly	Pro	Lys	Asp	Leu	Phe	Pro
	50					55				60					
Tyr	Lys	Glu	Tyr	Lys	Asp	Lys	Phe	Gly	Lys	Ser	Asn	Lys	Arg	Lys	Gly
65				70					75					80	
Phe	Asn	Glu	Gly	Leu	Trp	Glu	Ile	Glu	Asn	Asn	Pro	Gly	Val	Lys	Phe
			85					90					95		
Thr	Gly	Tyr	Gln	Ala	Ile	Gln	Gln	Gln	Ser	Ser	Ser	Glu	Thr	Glu	Gly
			100				105						110		
Glu	Gly	Gly	Asn	Thr	Ala	Asp	Ala	Ser	Ser	Glu	Glu	Glu	Gly	Asp	Arg
		115				120						125			
Val	Glu	Glu	Asp	Gly	Lys	Gly	Lys	Arg	Lys	Asn	Glu	Lys	Ala	Gly	Ser
	130					135					140				
Lys	Arg	Lys	Lys	Ser	Tyr	Thr	Ser	Lys	Lys	Ser	Ser	Lys	Gln	Ser	Arg
145				150						155				160	
Lys	Ser	Pro	Gly	Asp	Glu	Asp	Asp	Lys	Asp	Cys	Lys	Glu	Glu	Glu	Asn
			165					170					175		
Lys	Ser	Ser	Ser	Glu	Gly	Gly	Asp	Ala	Gly	Asn	Asp	Thr	Arg	Asn	Thr
			180				185						190		
Thr	Ser	Asp	Leu	Gln	Lys	Thr	Ser	Glu	Gly	Thr					
		195					200								

<210> 11308  
 <211> 1893  
 <212> DNA  
 <213> Homo sapiens

09629469.072800

<220>  
<221> CDS  
<222> (104).. (1582)

<400> 11308

```

gaagcgcgcc gcgcacctca tggttccggg gacagttagg gcggcggatg gagggtttgg 60
aatcacttgc taggagtctt gtctctctgc caccaggac atcatggcag ctccacctgg 120
aaagcgatgc acgtgcctcc tgagagaagc tgctcgtcag gcccttgcca tggctccagt 180
tggccgactg agacttgctt gggtagccca taagactctg acttcctcag ccacctcacc 240
catttcccac ctcccagggt ccttgatgga gccggtggag aaggaaacgag catctactcc 300
ctacatagag aagcagggtg accacctcat caagaaggcc acaaggccag aggagctcct 360
ggagctactt ggtggcagtc acgacttgga cagcaatcaa gcagcaatgg tacttatccg 420
gctctctcac ttgctgtctg agaagccaga agataaaggc ttgctcatalc aggatgcccc 480
ctttcatcaa cttctctgtc tgctcaacag tcagattgcc tcggtctggc atggtaccct 540
ctcgaagctg ctgggaagcc tgtatgctct gggcatcccc aaggcctcca aggagctgca 600
gtcgggtggg caggagggtc gctggcgcat gcggaagctc aagtacaagc acctggcctt 660
cctggcagag tcctgtgcca ccctctcaca ggagcagcac tcgcaggagc tgctggctga 720
gctgctcaca cacttggaac ggcggtggac agaaattgaa gattcccaca cattagtac 780
cgtcatgatg aaggtgggac acctctcgga gccactaatg aaccgcctgg aagacaagca 840
cgtcctgaac agagcgcagg acatcacctt gcccacctg tgcagcgtac ttctggcctt 900
tgcgcgtctg aacttccatc cagaccaaga ggatcagttc ttcagcctgg tacatgagaa 960
gctgggggtc gagctgccag gcctggagcc agccctgcag gtggacctgg tgtgggacct 1020
gtgtgtgctg cagcaggcac gggaagcaga gctgcaagcc gtcctccacc ctgaatttca 1080
catccaattt ctagggggca agtctcagaa ggatcagaac acctccaga agctgctcca 1140
catcaacgcc actgccctgc tggagtaccc cgagtactcg ggtccccttc tgcctgcctc 1200
ggctgtggcc cctgggacct cagcccttga cagggaagggt acccccctgc aaaaggagct 1260
gcaggagacg ctgaaggggc tgctggggag cgccgacaag ggcagcctcg aggtggccac 1320
gcagtatggc tgggtgctgg atgctgaggt gctgctggac agtgacggcg agtttctgcc 1380
cgtaagggac tttgtggcac ctccacctgc ccagccaact gggagccagt caccacctcc 1440
agggtctaag aggctagcgt tcttgccgtg ggagttcccc aacttcaaca gcogaagcaa 1500
ggacttgctg ggtcgctttg ttctggcccg gcgacacata gtggctgcag gcttcctgat 1560
agtggacgtc ccattctatg agtgactgga actcaagtct gaatggcaga aaggcgccta 1620
cctcaaggac aagatgcgca aagcggtggc cgaggagctg gccaagtac ttgtgccagc 1680
agcatggact gcgtgcctct ccgccggagg tctagctgtg ggccggccaag aagggtcacc 1740
cttgaggaca aacctctgtg caggaccttg gccagagtgg ggagggtggc cagccactct 1800
gagggacaga acgtcctctt gtgtataata aacctttaat tttggtgttg gaccctggg 1860
gccttcccag gcttggtcac cctctgcact gtc 1893

```

<210> 11309  
<211> 493  
<212> PRT  
<213> Homo sapiens

<400> 11309

```

Met Ala Ala His Leu Val Lys Arg Cys Thr Cys Leu Leu Arg Glu Ala
  1             5             10             15
Ala Arg Gln Ala Pro Ala Met Ala Pro Val Gly Arg Leu Arg Leu Ala

```

09629459.072800



				405						410					415				
Leu	Leu	Asp	Ser	Asp	Gly	Glu	Phe	Leu	Pro	Val	Arg	Asp	Phe	Val	Ala				
				420						425				430					
Pro	His	Leu	Ala	Gln	Pro	Thr	Gly	Ser	Gln	Ser	Pro	Pro	Pro	Gly	Ser				
			435				440				445								
Lys	Arg	Leu	Ala	Phe	Leu	Arg	Trp	Glu	Phe	Pro	Asn	Phe	Asn	Ser	Arg				
		450				455					460								
Ser	Lys	Asp	Leu	Leu	Gly	Arg	Phe	Val	Leu	Ala	Arg	Arg	His	Ile	Val				
465					470					475					480				
Ala	Ala	Gly	Phe	Leu	Ile	Val	Asp	Val	Pro	Phe	Tyr	Glu							
				485						490									

<210> 11310  
 <211> 1790  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (23).. (811)

<400> 11310

aaagtgggct	ccaggcgtcg	cgatggagga	gagcgggtac	gagtcgggtgc	tctgtgtcaa	60
gcctgacgtc	cacgtctacc	gcacccctcc	gcgggctacc	aaccgtggct	acagggtgc	120
ggagtggcag	ctggaccagc	catcatggag	tggccggctg	aggatcactg	caaagggaca	180
gatggcctac	atcaagctgg	aggacaggac	gtcaggggag	ctctttgctc	aggccccggt	240
ggatcagttt	cctggcacag	ctgtggagag	tgtgacggat	tccagcaggt	acttcgtgat	300
ccgcacgcga	gatggaaatg	ggcgacgggc	gtttattgga	attggcttcg	gggaccgagg	360
tgatgccttt	gacttcaatg	ttgcattgca	ggaccatttc	aagtgggtga	aacagcagtg	420
tgaatttgca	aaacaagccc	agaaccagga	ccaaggccct	aaactggacc	tgggcttcaa	480
ggagggccag	accatcaagc	tcaacatcgc	aaacatgaag	aagaagggaag	gagcagctgg	540
gaatccccga	gtccggcctg	ccagcacagg	agggctgagc	ctgcttcccc	ctcccccagg	600
ggggaaaacc	tccaccctga	tccctcccc	tggggagcag	ttggctgtgg	ggggatccct	660
cgtccagcca	gcagttgctc	ccagttcagg	aggtgctcct	gtaccctggc	cacagcccaa	720
tcctgccact	gctgacatct	ggggagactt	taccaaactc	acaggatcaa	cttcagcca	780
gacccagcca	ggcacaggct	gggtccagtt	ctgacctgag	cacggttttt	cctcatgtga	840
cttctgggaa	ggcgtccct	catctgggco	aaaggaagga	ggacgaagcc	ctcctcagct	900
ggcctgtgtt	tggggcatga	atctctctc	tcctccttgt	ctggctctgt	tgacaaaccg	960
ggcatgtttg	gcagtaaat	ggcaccgtgt	cacatgatca	cagttcagcg	ggaggctttc	1020
cgtaccaca	ctggctgtag	ccacttcagt	ccatctgccc	tccagaggag	gggtttcttc	1080
ctgattttta	gcaggtttag	aggctgcagc	ttgagctaca	atcaggaggg	aaattggaag	1140
gattagcagc	ttttaaaaat	gtttaaatat	tttgctttgc	taatgtgctg	atccgcacta	1200
actcatcttt	gcaaaaggaa	ctgctccctc	ggcgtgcccc	agctggggcc	tctgaaggga	1260
ttcctcactg	tgggcagctg	ccctgagctt	caggcagcag	tgttcattct	tggccagttg	1320
tctggtttcc	atgtattcta	ggccaggtag	gcaacacaga	gccaaggcgg	gtgctggaag	1380
ccagacggaa	cagtgttggg	gcaggaaggt	ggatgctgtt	gtcatggagc	tgtgggagtt	1440
ggcactctgt	ctgctgggtg	ccctctcggc	tcacatgttc	acagtgcagc	tcctggcaga	1500

-4777/13211-

cttgggtttt ctcttttggtg gtttctaaag tgccttatct gcaaacaact tcttttctcc 1560  
ttcaggaact gtgaatggct agaagaagga gctcagtaaa ctagaagtcc agggttgctt 1620  
ggtttactgg tttataagaa atctgaaagc acctctgaca ttctttttat taactcacct 1680  
ctcagttgaa agatttcttc tttgaaaggt caagaccgtg aactgaaaaa agtggttgcc 1740  
tttttgcggg accagatttt taagataaaa taaatatttt tacttctgtc 1790

<210> 11311

<211> 263

<212> PRT

<213> Homo sapiens

<400> 11311

Met	Glu	Glu	Ser	Gly	Tyr	Glu	Ser	Val	Leu	Cys	Val	Lys	Pro	Asp	Val
1				5					10					15	
His	Val	Tyr	Arg	Ile	Pro	Pro	Arg	Ala	Thr	Asn	Arg	Gly	Tyr	Arg	Ala
			20					25					30		
Ala	Glu	Trp	Gln	Leu	Asp	Gln	Pro	Ser	Trp	Ser	Gly	Arg	Leu	Arg	Ile
		35					40					45			
Thr	Ala	Lys	Gly	Gln	Met	Ala	Tyr	Ile	Lys	Leu	Glu	Asp	Arg	Thr	Ser
	50					55					60				
Gly	Glu	Leu	Phe	Ala	Gln	Ala	Pro	Val	Asp	Gln	Phe	Pro	Gly	Thr	Ala
65				70					75					80	
Val	Glu	Ser	Val	Thr	Asp	Ser	Ser	Arg	Tyr	Phe	Val	Ile	Arg	Ile	Glu
			85					90					95		
Asp	Gly	Asn	Gly	Arg	Arg	Ala	Phe	Ile	Gly	Ile	Gly	Phe	Gly	Asp	Arg
		100				105						110			
Gly	Asp	Ala	Phe	Asp	Phe	Asn	Val	Ala	Leu	Gln	Asp	His	Phe	Lys	Trp
	115					120						125			
Val	Lys	Gln	Gln	Cys	Glu	Phe	Ala	Lys	Gln	Ala	Gln	Asn	Pro	Asp	Gln
	130					135					140				
Gly	Pro	Lys	Leu	Asp	Leu	Gly	Phe	Lys	Glu	Gly	Gln	Thr	Ile	Lys	Leu
145				150					155					160	
Asn	Ile	Ala	Asn	Met	Lys	Lys	Lys	Glu	Gly	Ala	Ala	Gly	Asn	Pro	Arg
			165					170					175		
Val	Arg	Pro	Ala	Ser	Thr	Gly	Gly	Leu	Ser	Leu	Leu	Pro	Pro	Pro	Pro
		180				185						190			
Gly	Gly	Lys	Thr	Ser	Thr	Leu	Ile	Pro	Pro	Pro	Gly	Glu	Gln	Leu	Ala
	195					200						205			
Val	Gly	Gly	Ser	Leu	Val	Gln	Pro	Ala	Val	Ala	Pro	Ser	Ser	Gly	Gly
	210					215					220				
Ala	Pro	Val	Pro	Trp	Pro	Gln	Pro	Asn	Pro	Ala	Thr	Ala	Asp	Ile	Trp
225				230					235					240	
Gly	Asp	Phe	Thr	Lys	Ser	Thr	Gly	Ser	Thr	Ser	Ser	Gln	Thr	Gln	Pro
			245					250						255	
Gly	Thr	Gly	Trp	Val	Gln	Phe									
			260												

09629469.072800



<210> 11312  
<211> 1109  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (83).. (631)

<400> 11312  
aaaatagggt cactgggccc cttggcggtg tcgttgcggt accaggtccg cgtgaggggt 60  
tcgggggttc tgggcaggca caatggcgtc tcgagcaggc ccgcgagcgg ccggcaccga 120  
cggcagcgac tttcagcacc gggagcgcgt cgccatgcac taccagatga gtgtgaccct 180  
caagtacgaa atcaagaagc tgatctacgt acatctggtc atatggctgc tgctggttgc 240  
taagatgagc gtggaacacc tggggctctt gtcacatgat caggtggcca tgccctatca 300  
gtgggaatac ccgtatttgc tgagcatttt gccctctctc ttgggccttc tctcctttcc 360  
ccgcaacaac attagctacc tgggtgctctc catgatcagc atgggactct ttcccatcgc 420  
tccactcatt tatggcagca tggagatggt ccctgctgca cagcagctct accgccatgg 480  
caaggccctac cgtttcctct ttggtttttc tgccgtttcc atcatgcacc tgggtgttgt 540  
gttggcagtg caagtgcagc cctggcagtt gtactacagc aagaagctcc tagactcttg 600  
gttcaccagc acacaggaga agaagcataa atgaagcctc ttgggggtga agcctggaca 660  
tcccatcgaa tgaaaggaca ctagtacagc ggttccaaaa tcccttctgg tgattttagc 720  
agctgtgatg ttggtacctg gtgcagacca ggccaaagtt ctggaaagct ccttttgcca 780  
tctgctgagg tggcaaaact ataatttatt cctggttggc tagaactggg tgaccaacag 840  
ctatgaaaca aatttcagct gtttgaagtt gaactttgag gtttttcttt aagaatgagc 900  
ttcgtccttg cctctactcg gtcattctcc ccatttccat ccattacccc ttagccattg 960  
agactaaagg aaatagggaa taaatcaaat tacttcatct ctaggtcacg ggtcaggaaa 1020  
catttgggca gctgctccct tggcaggctg tggccccctc tgcaaagcat ttaattaaa 1080  
aacctcaata aagatggccc tgcccacac 1109

<210> 11313  
<211> 183  
<212> PRT  
<213> Homo sapiens

<400> 11313  
Met Ala Ser Arg Ala Gly Pro Arg Ala Ala Gly Thr Asp Gly Ser Asp  
1 5 10 15  
Phe Gln His Arg Glu Arg Val Ala Met His Tyr Gln Met Ser Val Thr  
20 25 30  
Leu Lys Tyr Glu Ile Lys Lys Leu Ile Tyr Val His Leu Val Ile Trp  
35 40 45  
Leu Leu Leu Val Ala Lys Met Ser Val Glu His Leu Gly Leu Leu Ser  
50 55 60  
His Asp Gln Val Ala Met Pro Tyr Gln Trp Glu Tyr Pro Tyr Leu Leu  
65 70 75 80

000224069462960

Ser Ile Leu Pro Ser Leu Leu Gly Leu Leu Ser Phe Pro Arg Asn Asn  
85 90 95  
Ile Ser Tyr Leu Val Leu Ser Met Ile Ser Met Gly Leu Phe Ser Ile  
100 105 110  
Ala Pro Leu Ile Tyr Gly Ser Met Glu Met Phe Pro Ala Ala Gln Gln  
115 120 125  
Leu Tyr Arg His Gly Lys Ala Tyr Arg Phe Leu Phe Gly Phe Ser Ala  
130 135 140  
Val Ser Ile Met His Leu Val Leu Val Leu Ala Val Gln Val His Ala  
145 150 155 160  
Trp Gln Leu Tyr Tyr Ser Lys Lys Leu Leu Asp Ser Trp Phe Thr Ser  
165 170 175  
Thr Gln Glu Lys Lys His Lys  
180

<210> 11314  
<211> 1667  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (146).. (1480)

<400> 11314  
gtctctcgtt ttccggacggc tgcagcatcg cgggtggggat cgaaagcggg ggcttctggg 60  
acgcagctct ggagacgagg cctcggacca gccatttcgg tgtagaagtg gcagcacggc 120  
agattcatct gaaaactaca ttaagatgaa gacctttgaa ggtttctgtg ctttgcattc 180  
cgctgcaagt caaggacatt ggaaaatcgt acagattcct ttagaagctg gggcagatcc 240  
taatgcaact actttagaag aaacgacacc attgttttca gctgttgaaa atggacagat 300  
agatgtgtta aggctgttgc ttcaacacgg agcaaatgtt aatggatccc attctatgtg 360  
tggtatggaac tccttgcacc aggcttcttt tcaggaaaat gctgagatca taaaattgct 420  
tcttagaaaa ggagcaaaca aggaatgcca ggatgacttt ggaatcacac ccttatttgt 480  
ggctgctcag tatggcaagc tagaaagctt gagcatactt atttcatcgg gtgcaaattg 540  
caattgtcaa gccttggaca aagctacacc ctgtttcatt gctgctcaag agggacacac 600  
aaaatgtgtg gagcttttgc tctccagtgg ggcagatcct gatctttact gtaatgagga 660  
cagttggcag ttacctattc atgcagctgc acaaatgggc catacaaaaa tcttggactt 720  
gttaatacca cttactaacc gggcctgtga cactgggcta aacaaagtaa gccctgttta 780  
ctcagcagtg tttgggggac atgaagattg cctagaaata ttactccgga atggctacag 840  
cccagacgcc caggcgtgcc ttgttttttg attcagttct cctgtgtgca tggctttcca 900  
aaaggactgt gagttctttg gaattgtgaa cattcttttg aaatatggag cccagataaa 960  
tgaacttcat ttggcatact gcctgaagta cgagaagttt tcgatatttc gctacttttt 1020  
gaggaaaggt tgctcatttg gaccatggaa ccataatat gaatttgtaa atcatgcaat 1080  
taaagcacia gcaaaatata aggagtgtt gccacatctt ctggttgctg gatttgaccc 1140  
actgattcta ctgtgcaatt cttggattga ctcagtcagc attgacaccc ttatcttcac 1200  
tttggagttt actaattgga agacacttgc accagctgtt gaaaggatgc tctctgctcg 1260  
tgctcaaac gcttggattc tacagcaaca tattgccact gttccatccc tgacctatct 1320

000210169462960

```

ttgtcgtttg gaaattcggg ccagtcctaaa atcagaacgt ctacggctctg acagttatat 1380
tagtcagctg ccacttccca gaagcctaca taattatttg ctctatgaag acgttctgag 1440
gatgtatgaa gttccagaac tggcagctat tcaagatgga taaatcagtg aaactactta 1500
acacagctaa tttttttctc tgaaaaatca tcgagacaaa agagccacag agtacaagtt 1560
tttatgattt tatagtcaaa agatgattat tgattgtcag ataggttagg ttttgggggg 1620
ccagtagttc agtgagaatg tttatgttta caactagcct tcccagt 1667

```

<210> 11315  
 <211> 445  
 <212> PRT  
 <213> Homo sapiens

<400> 11315

Met	Lys	Thr	Phe	Glu	Gly	Phe	Cys	Ala	Leu	His	Leu	Ala	Ala	Ser	Gln
1				5					10					15	
Gly	His	Trp	Lys	Ile	Val	Gln	Ile	Leu	Leu	Glu	Ala	Gly	Ala	Asp	Pro
			20					25					30		
Asn	Ala	Thr	Thr	Leu	Glu	Glu	Thr	Thr	Pro	Leu	Phe	Ser	Ala	Val	Glu
		35					40					45			
Asn	Gly	Gln	Ile	Asp	Val	Leu	Arg	Leu	Leu	Leu	Gln	His	Gly	Ala	Asn
	50					55					60				
Val	Asn	Gly	Ser	His	Ser	Met	Cys	Gly	Trp	Asn	Ser	Leu	His	Gln	Ala
65					70					75					80
Ser	Phe	Gln	Glu	Asn	Ala	Glu	Ile	Ile	Lys	Leu	Leu	Leu	Arg	Lys	Gly
				85					90					95	
Ala	Asn	Lys	Glu	Cys	Gln	Asp	Asp	Phe	Gly	Ile	Thr	Pro	Leu	Phe	Val
			100					105					110		
Ala	Ala	Gln	Tyr	Gly	Lys	Leu	Glu	Ser	Leu	Ser	Ile	Leu	Ile	Ser	Ser
		115					120					125			
Gly	Ala	Asn	Val	Asn	Cys	Gln	Ala	Leu	Asp	Lys	Ala	Thr	Pro	Leu	Phe
	130					135					140				
Ile	Ala	Ala	Gln	Glu	Gly	His	Thr	Lys	Cys	Val	Glu	Leu	Leu	Leu	Ser
145					150					155					160
Ser	Gly	Ala	Asp	Pro	Asp	Leu	Tyr	Cys	Asn	Glu	Asp	Ser	Trp	Gln	Leu
			165						170					175	
Pro	Ile	His	Ala	Ala	Ala	Gln	Met	Gly	His	Thr	Lys	Ile	Leu	Asp	Leu
			180					185					190		
Leu	Ile	Pro	Leu	Thr	Asn	Arg	Ala	Cys	Asp	Thr	Gly	Leu	Asn	Lys	Val
		195					200					205			
Ser	Pro	Val	Tyr	Ser	Ala	Val	Phe	Gly	Gly	His	Glu	Asp	Cys	Leu	Glu
	210					215					220				
Ile	Leu	Leu	Arg	Asn	Gly	Tyr	Ser	Pro	Asp	Ala	Gln	Ala	Cys	Leu	Val
225					230					235					240
Phe	Gly	Phe	Ser	Ser	Pro	Val	Cys	Met	Ala	Phe	Gln	Lys	Asp	Cys	Glu
			245					250					255		
Phe	Phe	Gly	Ile	Val	Asn	Ile	Leu	Leu	Lys	Tyr	Gly	Ala	Gln	Ile	Asn
		260					265						270		

09629469.072800



```

agagacacca .acagggggcca cactgtgaag gcagtgtgtg agtcatttca cctggccaaa 900
gattccgggtt ttaaagtgggt ggcccatatg atgcctgacc tgccaaacgt gggactagaa 960
agagacattg aacagttcac agagtttttt gagaaccctg cttttcgtcc cgatgggctg 1020
aaactctatc ctaccctgggt gattcgtggg accgggcttt atgagctttg gaaatcagga 1080
agatataaga gttactctcc tagtgacctg gttgaattgg tggctcggat cctagccctc 1140
gtgcctccat ggactcgagt gtaccgagta cagagggata ttccaatgcc tttagttagc 1200
tcaggagtag agcatggtaa cctgagagag ctggcacttg caagaatgaa agacctcgga 1260
atacagtgtc gagatgtgag aaccagagaa gttggaatcc aagaaattca tcacaaagta 1320
cggccatacc aggttgaatt ggtaaggaga gattatgttg caaatgggtg ctgggaaaca 1380
ttcttgtcat acgaagacct agatcaagac attttgattg gcctcctacg attacgcaag 1440
tggtcagaaa gaatagctag agaagaacat gggctctggga aaatcgctgt gatatcaggg 1500
gtcggcacca ggaattatta tagaaagatc ggctacagat tacaaggccc gtacatggtg 1560
aagatgctga aataatggcc acaccagtcc actcttctgc agtatcctcc ctggcagaac 1620
acgggagaatc aggatttctt aaataactcaa cagagaggct gagcagagca aatggggggc 1680
ttcacctca tcccgcagct gcagagactg gaaactgcct tcaaggccac ggctggtcat 1740
ctgctgacca caccocagat cggccctctc ctgcgtgcac cccaaaaaat cacttgcgtt 1800
tttgaggctt aaatcatcta tccagtttct acattttgca tgaggcctgc aggtggccta 1860
ttttgactca gacggtgaaa aaagcaaatt aactcatttg gacaccataa ctcattgcaat 1920
aaaactgatt gtcattcgag gaggc                                     1944

```

<210> 11317  
 <211> 499  
 <212> PRT  
 <213> Homo sapiens

<400> 11317

Met	Arg	Gln	Lys	Arg	Lys	Gly	Asp	Leu	Gly	Pro	Ala	Glu	Leu	Met	Met
1				5					10					15	
Leu	Thr	Ile	Gly	Asp	Val	Ile	Lys	Gln	Leu	Ile	Glu	Ala	His	Glu	Gln
			20					25					30		
Gly	Lys	Asp	Ile	Asp	Leu	Asn	Lys	Val	Lys	Thr	Lys	Thr	Ala	Ala	Lys
		35					40					45			
Tyr	Gly	Leu	Ser	Ala	Gln	Pro	Arg	Leu	Val	Asp	Ile	Ile	Ala	Ala	Val
	50					55				60					
Pro	Pro	Gln	Tyr	Arg	Lys	Val	Leu	Met	Pro	Lys	Leu	Lys	Ala	Lys	Pro
	65				70				75					80	
Ile	Arg	Thr	Ala	Ser	Gly	Ile	Ala	Val	Val	Ala	Val	Met	Cys	Lys	Pro
				85				90					95		
His	Arg	Cys	Pro	His	Ile	Ser	Phe	Thr	Gly	Asn	Ile	Cys	Val	Tyr	Cys
			100				105					110			
Pro	Gly	Gly	Pro	Asp	Ser	Asp	Phe	Glu	Tyr	Ser	Thr	Gln	Ser	Tyr	Thr
	115					120					125				
Gly	Tyr	Glu	Pro	Thr	Ser	Met	Arg	Ala	Ile	Arg	Ala	Arg	Tyr	Asp	Pro
	130				135					140					
Phe	Leu	Gln	Thr	Arg	His	Arg	Ile	Glu	Gln	Leu	Lys	Gln	Leu	Gly	His
145					150					155				160	
Ser	Val	Asp	Lys	Val	Glu	Phe	Ile	Val	Met	Gly	Gly	Thr	Phe	Met	Ala

00629469.072800



<213> Homo sapiens

<400> 11318

```
gcagacacgt gatgcggggg agggcggggg gtggcaggag caagcgtctg ccgcggtggc 60
cgggtgccgg taagggtttc cagcgccccc ggccatagggt ttggaggcgc gggaatgcgt 120
tcgttgctca gtgtcggact tccccctatt cccatcggcc gaggtgtca ctttacgctc 180
ataaccgttt ttctttactg cactcgtgtc gggaggaaag ggacttgcgt ggcacccccca 240
gacctccccg tctccgcttc cacttttggg acatcctgcc tgaggcagga agccgcagct 300
gagggacggc ctgtcgtacg gtgcggatgg tggtagcctg cgaggctcat ttctagcaag 360
gaacaaggct ttcccgcttt gattttataa atattatgtt tacaaaagctg taatatatag 420
aaattgataa gacgtgtccc tgtccctgga aacgcaggca ccgcgtgttt ggaaagacat 480
tcctctgggc tgtttgacag actccccagt tggtagcctg ctctgtgctt agggaaactgt 540
gagacccttg gaggggtggg taccgggacc gcactcagcc tgggggttgg aggcggcctc 600
ctataggaag cgacctggga cctaagattt ttagactgac tgtgggttca ctggaataaa 660
aaggaagaga caaagagcat tgcaggcatc gggactgtca catttgacaa gatcaaagct 720
gcaggaaaat ggacagttag gttcagagag atggaaggat cttggatttg attgatgatg 780
cttgccgaga agacaagctg ccttatgagg atgtcgcaat accactgaat gagcttcctg 840
aacctgaaca agacaatggt ggcaccacag aatctgtcaa agaacaagaa atgaagtgga 900
cagacttagc cctacagtac ctccatgaga atgttcccc cattggaaac tgacgcttgg 960
ctcctttctt gtggatggat tttctcaaag tacacagata aagcatggtt tgtttcagtc 1020
tccaaattca aacctttgag taataaatca gcaactcaaa atgtacaccc atttagtttg 1080
tggtagcaaa gtgcaatgcg aaattgaatg agaaactgag atttctcagt aatggtgaat 1140
attccgctct ttaaacctaa aactcttcat tgagtagctt atatttgaac atgattggtt 1200
aaacatttgc ctctacctct gattttgctt tgcgtgtcaa gtttaacacc ttccaactac 1260
ttatgtgtgt cctgtaacac aggtgattga acgtatgaga gggaaaggca aagaaaaagg 1320
aagccagaca ctaggagaat tattaacttc tcatacttcc ccacattgag aagcattcgg 1380
agtgtattta gcctgtagat gttgttatat gcaaatatcc cattccctgg ttactggcat 1440
tcctaagatt cttcatggta ttttcaaact ttggataaat ttacagatta gaaagatatc 1500
tgacagttaa tctctgttct ccttacaaat tccctttgtg ctgctggaaa ggatccttgg 1560
ctaggtggat gactagtttt attcaaagcc ttttctcaaa gccctttcag ttacaaccac 1620
cccactatgg aatcagtatt tagttataca tttgtataag aacctgtatt ttgaaaaaca 1680
cattcatgta tatttattcc tggaattatt tgccgtgtta acagtgtctt tcatgttctc 1740
tcccagatt gtaaaactct taagaagctg cttgtatctg tatccctgtg tgaaactctg 1800
aaaacactga ataactaaaa tctcttctca tccctttt 1837
```

<210> 11319

<211> 1836

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (73).. (621)

<400> 11319

```
gaggctcggc cgcctgagcc gcggacgggt tgcgtagccc gttagtgcgc ccggccgaga 60
cacgccgccg ccatgtcccg ctacctgogt ccccccaaca cgtctctgtt cgtcaggaac 120
```

```

gtggccgacg acaccaggct tgaagacttg cggcgtgaat ttggctgtta tggctcctata 180
gttgatgtgt atgttccact tgattttctac actcgccgct caagaggatt tgcttatgtt 240
caatttgagg atgttcgtga tgctgaagac gctttacata atttggacag aaagtggatt 300
tgtggacggc agattgaaat acagtttgcc cagggggatc gaaagacacc aaatcagatg 360
aaagccaagg aagggaggaa tgtgtacagt tcttcacgct atgatgatta tgacagatac 420
agacgttcta gaagccgaag ttatgaaagg aggagatcaa gaagtcggtc ttttgattac 480
aactatagaa gatcgtatag tcttagaaac agtagaccga ctggaagacc acggcgtagc 540
agaagccatt ccgacaatga tagaccaaac tgcagctgga ataccagta cagttctgct 600
tactacactt caagaaagat ctgaaagcgg aaaaagaacc aaagaagggc agttcaagcg 660
accaaagggt ggggtggaagg tgctgcagta tgaatactgt acgaatattt tgactctggt 720
ctgaaaagat aaaagaatgt tatcgaaaac tacatggaat aattgaagtc ccttcaagtt 780
tgtaagtaag catttttaga caaataaaaag gaaattcaac tttgtacttg tggaaactaa 840
tccctaaata tgaataggtt tatattgatt catgggtaac aggtccataa taaattattg 900
gaaactagga tgtctgaata tcaaggaaga cagccatagt ctottacagt gcctctgttg 960
gtctgtctca aactgaattg ggtgggaaaa ggtatggctc aatataaaaag ttccattttt 1020
gccattattg gcaaatcttg cctttgttta ttttggtgcc agtgttttct gcttaatcat 1080
ttgctttgtt ggcattctgt tatttacttg tacaccacat gcagtttaca tctgtcttaa 1140
ctactccttc ccaggtaaat tccaattata ttgacatcc agctaagagg gcccatctct 1200
tctcacctct ttcctagtca gtatattcag caaatattta ttgagccctt actgtgggca 1260
aatcattgta ctggataatt gagaaaaata gataattccc ttattcagta aatgtctact 1320
gagcacaatc tagtgaatca ttacagtatg gcctcattgt tttgtttgag gtgtgttatt 1380
cataacaata ttttacacca ttctgtatcaa tgtaattata gaacacaata tacgatcaag 1440
gataagtaat tgttgtgtta tctgccattt aaaagtatcc agtatttgat cacattatta 1500
taaataatga aaaaatgatt taatctgtaa taaactgggt tattgtgcag tgactgtaat 1560
atactagagt tataataaat tgtttactct gcctcaccaa acacatgcta ggatataacc 1620
cccaaataa gtattttaact ttgcattagg tataaaggag actgggtgct ataattagat 1680
tattttgagg cagacagaga gctgttatcc taactgattt agtatgttct gtaattgaga 1740
aaatgttcac caaattatac tttttagtga ttacatgta cattttatag gggacatgtt 1800
ctgtgtatag cgaataaata acttttatag tatcac 1836

```

<210> 11320  
 <211> 183  
 <212> PRT  
 <213> Homo sapiens

<400> 11320  
 Met Ser Arg Tyr Leu Arg Pro Pro Asn Thr Ser Leu Phe Val Arg Asn  
 1 5 10 15  
 Val Ala Asp Asp Thr Arg Ser Glu Asp Leu Arg Arg Glu Phe Gly Arg  
 20 25 30  
 Tyr Gly Pro Ile Val Asp Val Tyr Val Pro Leu Asp Phe Tyr Thr Arg  
 35 40 45  
 Arg Pro Arg Gly Phe Ala Tyr Val Gln Phe Glu Asp Val Arg Asp Ala  
 50 55 60  
 Glu Asp Ala Leu His Asn Leu Asp Arg Lys Trp Ile Cys Gly Arg Gln  
 65 70 75 80  
 Ile Glu Ile Gln Phe Ala Gln Gly Asp Arg Lys Thr Pro Asn Gln Met

008220694696



				85					90					95				
Lys	Ala	Lys	Glu	Gly	Arg	Asn	Val	Tyr	Ser	Ser	Ser	Arg	Tyr	Asp	Asp			
			100					105					110					
Tyr	Asp	Arg	Tyr	Arg	Arg	Ser	Arg	Ser	Arg	Ser	Tyr	Glu	Arg	Arg	Arg			
		115					120					125						
Ser	Arg	Ser	Arg	Ser	Phe	Asp	Tyr	Asn	Tyr	Arg	Arg	Ser	Tyr	Ser	Pro			
		130				135					140							
Arg	Asn	Ser	Arg	Pro	Thr	Gly	Arg	Pro	Arg	Arg	Ser	Arg	Ser	His	Ser			
145					150					155					160			
Asp	Asn	Asp	Arg	Pro	Asn	Cys	Ser	Trp	Asn	Thr	Gln	Tyr	Ser	Ser	Ala			
			165					170						175				
Tyr	Tyr	Thr	Ser	Arg	Lys	Ile												
			180															

<210> 11321  
 <211> 1249  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (188).. (976)

<400> 11321

ttcctagcca	ggcctggcgg	taaccttggg	ggcctcactg	cagccgcgcg	tgctgttggg	60
gtgggctttg	cgagtctgaa	cgttggcggg	gctaggctcg	ttaactgccg	agagcctccg	120
ggttttgcgg	ggaggacgct	gaggcccggt	gggggcaggc	accggggcgc	cgggcctccc	180
agccgacatg	tctctagtgg	cggaagcctt	cgtctccag	attgcagctg	cagaaccttg	240
gcctgaaaat	gctacattat	atcagcaatt	gaaaggggag	caaattttac	tttctgacaa	300
tgcagcttct	cttgcaagtgc	aggccttttt	gcaaattgtg	aaattgccta	tcaaagtagt	360
ttgtagggca	aatgcagaat	atatgtctcc	atctggtaaa	gtacctttta	ttcatgtggg	420
aaatcaagta	gtatcaggac	ttggtccaat	agtccaattt	gttaaagcca	agggccattc	480
totttagtgat	gggctggagg	aagtccaaaa	agcagaaatg	aaagcttaca	tggaattagt	540
caacaatatg	ctgttgactg	cagagctgta	tcttcagtgg	tgtgatgaag	ctacagtagg	600
ggagatcact	catgctaggt	atggatctcc	ttacccttgg	cctctgaatc	atattttggc	660
ctatcaaaaa	cagtgggaag	tcaaacgtaa	gatgaaagct	attggatggg	gaaagaagac	720
tctggaccag	gtcttagagg	atgtagacca	gtgctgtcaa	gctctctctc	aaagactggg	780
aacacaaccg	tatttcttca	ataagcagcc	tactgaactt	ggcgcaactg	tatttggcca	840
totatacacc	attcttacca	cacaattgac	aaatgatgaa	ctttctgaga	aggtgaaaaa	900
ctatagcaac	ctccttgctt	tctgtaggag	aattgaacag	cactattttg	aggatcgtgg	960
taaaggcagg	ctgtcataga	gttatgtgtt	agtctcagga	gtottaactt	ttgaaatatg	1020
ttttacttga	atgttacatt	agatatgtgt	gtcagaattt	taaaaccaa	ttactgcttt	1080
ttgaaacctc	aaattatata	atgtatctta	tgtatgtgct	ttatatgtgt	atttgtgtat	1140
acattaaaaat	aattctgaat	tatttgatct	gatatgttgt	attctgtatc	ttgaaatttt	1200
tgtttccttg	aaacatgcat	gcatttaaaa	ataaagctta	aacaactgt		1249

-4787/13211-

<210> 11322  
<211> 263  
<212> PRT  
<213> Homo sapiens

<400> 11322

Met	Ser	Leu	Val	Ala	Glu	Ala	Phe	Val	Ser	Gln	Ile	Ala	Ala	Ala	Glu
1				5				10					15		
Pro	Trp	Pro	Glu	Asn	Ala	Thr	Leu	Tyr	Gln	Gln	Leu	Lys	Gly	Glu	Gln
			20					25					30		
Ile	Leu	Leu	Ser	Asp	Asn	Ala	Ala	Ser	Leu	Ala	Val	Gln	Ala	Phe	Leu
		35					40					45			
Gln	Met	Cys	Asn	Leu	Pro	Ile	Lys	Val	Val	Cys	Arg	Ala	Asn	Ala	Glu
	50					55				60					
Tyr	Met	Ser	Pro	Ser	Gly	Lys	Val	Pro	Phe	Ile	His	Val	Gly	Asn	Gln
65					70					75					80
Val	Val	Ser	Gly	Leu	Gly	Pro	Ile	Val	Gln	Phe	Val	Lys	Ala	Lys	Gly
				85					90					95	
His	Ser	Leu	Ser	Asp	Gly	Leu	Glu	Glu	Val	Gln	Lys	Ala	Glu	Met	Lys
			100					105					110		
Ala	Tyr	Met	Glu	Leu	Val	Asn	Asn	Met	Leu	Leu	Thr	Ala	Glu	Leu	Tyr
		115					120					125			
Leu	Gln	Trp	Cys	Asp	Glu	Ala	Thr	Val	Gly	Glu	Ile	Thr	His	Ala	Arg
	130					135					140				
Tyr	Gly	Ser	Pro	Tyr	Pro	Trp	Pro	Leu	Asn	His	Ile	Leu	Ala	Tyr	Gln
145					150					155					160
Lys	Gln	Trp	Glu	Val	Lys	Arg	Lys	Met	Lys	Ala	Ile	Gly	Trp	Gly	Lys
			165					170						175	
Lys	Thr	Leu	Asp	Gln	Val	Leu	Glu	Asp	Val	Asp	Gln	Cys	Cys	Gln	Ala
			180					185				190			
Leu	Ser	Gln	Arg	Leu	Gly	Thr	Gln	Pro	Tyr	Phe	Phe	Asn	Lys	Gln	Pro
		195					200					205			
Thr	Glu	Leu	Gly	Ala	Leu	Val	Phe	Gly	His	Leu	Tyr	Thr	Ile	Leu	Thr
	210					215					220				
Thr	Gln	Leu	Thr	Asn	Asp	Glu	Leu	Ser	Glu	Lys	Val	Lys	Asn	Tyr	Ser
225					230					235					240
Asn	Leu	Leu	Ala	Phe	Cys	Arg	Arg	Ile	Glu	Gln	His	Tyr	Phe	Glu	Asp
			245						250					255	
Arg	Gly	Lys	Gly	Arg	Leu	Ser									
			260												

<210> 11323  
<211> 1685  
<212> DNA  
<213> Homo sapiens

<220>

008220" 69462960

<221> CDS  
<222> (132).. (737)

<400> 11323

```
acttcagttc tcggagagaa gaggcgggag tggacctggt cagccctacc ccactgaccc 60
caccggaccc aggcgcggcc tccgccacag ccacagcccc tgcccctgct gcggcgcggc 120
gaggcgaggc gatggccaag gtgtcgggtgc tgaacgtggc ggccctggag aacccgagcc 180
ctttccacag ccccttccgg ttccgagatca gcttcgagtg cagtgaagcc ctggcggacg 240
acctggagtgc gaagatcatt tatgttggct cggctgagag tgaggaattt gatcagatcc 300
tagactcggg gctggtgggc cctgtgccag caggagagaca catgtttgtc tttcaggccg 360
acgcccccaa cccatccctc atcccagaga ctgatgccgt gggtgtgact gtggtcctca 420
tcacctgcac ctaccatgga caggagttca tccagtgagg ctactacgtc aacaacgagt 480
acctcaaccc tgagctgcgt gagaacccgc ccatgaagcc agatttctcc cagctccagc 540
ggaacatctt ggccctcgaac ccccggttga cccgcttcca tatcaactgg gacaacaaca 600
tggacaggct ggaggccata gagaccagg acccctccct gggctgcggc ctcccactca 660
actgcactcc tatcaagggc ttggggctcc ctggctgcat cccctggcctc ctccctgaga 720
actccatgga ctgcatctaa ctgcaggaa cccagagtgtc ccagcacgcc gggaggggca 780
accaggcctc ccagcgagtc ctgcagggcc catctagagg actttggggg ccatcagctg 840
caatccagggt ctgtcaaact cagcccctag gaaagaacag gccttgggtc tcccctagtc 900
ctggccagaa ggatgatctc gcttttctc tacaggccta taagaagcag gtacttcagt 960
tctaaattct gacttgtgtt cttttcgtct tcataaattc taactaaggc cactgtgcca 1020
ctgtgcaccc ttgagtacca ttgatccaaa gctttccac agacctccct ggcccaccta 1080
gaggctttct tggtcagtgc ctgtcaaggc tccagtcctg ctgagccaaa ggctttgtca 1140
ttcctttctc ttcctgtaca tctgagcaga cccactccag ctttctggtg tcacaggcgg 1200
gaatgttagt tagtaggtag acttagatcc catttctgtc ctgctcccag gaagattctt 1260
aggtcctctt caatccagca gcccctccca gaggtgtgat cagcaggatg ctgaggaacc 1320
atgttgccct tccgtgcaat cacagccacc ttcctgttat ctccataatg gatctggctt 1380
ttcctggagg ctgccatggt tggaagatgg tatcagaggg cctgcctggg cagtctgtct 1440
ccgggccagg gtcagggacc ctctgcctct ggcagcctta acctgtcctc tgctaggacc 1500
agggtgattt caagccaggg aagcaactgg gaccctgaaa actgtccctc ccagcccgcc 1560
tccccctctc tgtgccctgg tccccttgct gccatgtgga tgcgtgtgtg attgctgttt 1620
gtatattatc aaaatgtttt tatattaaaa atgttttggtc tgaaaattaa aagcacttca 1680
ttag
```

<210> 11324  
<211> 202  
<212> PRT  
<213> Homo sapiens

<400> 11324

```
Met Ala Lys Val Ser Val Leu Asn Val Ala Ala Leu Glu Asn Pro Ser
  1             5             10             15
Pro Phe His Ser Pro Phe Arg Phe Glu Ile Ser Phe Glu Cys Ser Glu
          20             25             30
Ala Leu Ala Asp Asp Leu Glu Trp Lys Ile Ile Tyr Val Gly Ser Ala
          35             40             45
Glu Ser Glu Glu Phe Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro
```

008220" 69462960

50	55	60
Val Pro Ala Gly Arg His Met Phe Val Phe Gln Ala Asp Ala Pro Asn		
65	70	75
Pro Ser Leu Ile Pro Glu Thr Asp Ala Val Gly Val Thr Val Val Leu		
	85	90
Ile Thr Cys Thr Tyr His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr		
	100	105
Val Asn Asn Glu Tyr Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met		
	115	120
Lys Pro Asp Phe Ser Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro		
	130	135
Arg Val Thr Arg Phe His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu		
	145	150
Glu Ala Ile Glu Thr Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu		
	165	170
Asn Cys Thr Pro Ile Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly		
	180	185
Leu Leu Pro Glu Asn Ser Met Asp Cys Ile		
	195	200

<210> 11325  
 <211> 1431  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (122).. (718)

<400> 11325

aagtgaccct	agagaaacga	gttgtggctg	aggaccccg	cggcagacgc	aggttcggga	60
ccatgagctg	gattcctttt	aagattgggc	agcccaagaa	acagattgtg	cccaaaacac	120
catgtcaaaa	tctgccgtga	agatatcctt	ggacttactc	tccaatcccc	tctgtgagca	180
agaccaggac	cttctgaaca	tggtagcggc	cctggacacg	gocatgaagc	ggatggatgc	240
cttcaatcag	gaaaagggtga	accagatcca	gaagactgtg	atcgagccct	taaaaaagtt	300
cggcagtgtc	ttcccagacc	tcattcatggc	tgtgaagagg	cggaacagg	ccttgcagga	360
ctacaggagg	ctgcaggcca	aggtggagaa	gtatgaggaa	aaggagaaga	cggggccagt	420
gctggccaag	ctccaccagg	cacgagagga	gctgcggcct	gtgcgggagg	actttgaagc	480
caagaacagg	cagctgctgg	aggagatgcc	gcgcttctac	ggcagccgcc	tcgactactt	540
ccagcccagc	tttgagtccc	tcattccgagc	tcaggttgtg	tactactcgg	aaatgcacaa	600
gatcttttga	gacctgtccc	atcagcttga	ccagccaggc	cactccgatg	agcagcggga	660
gcggggagaac	gaggccaaac	tcagttagct	ccggggccctc	tccattgttg	ccgatgactg	720
aatccccgtc	actcttggag	gactcctgtg	acgttggtcag	cctcattcat	ccttgcctt	780
ctcagggtta	gctgctcctc	tcacaggctg	gggacagagg	tggccctgg	tcacttgccg	840
gcccttttga	atgaatgact	cttccctgagc	ctggcaccag	gagccctagg	caggccgccg	900
tctccccact	cacagcccca	gcaggtaagc	agtgtagaca	aacccttggg	gcttttttat	960
ttggagaacc	gtccagcatg	catcctggcc	cacggcctga	gcaagctgca	gcccttctga	1020

00629469.072800

-4790/13211-

```
ggccatgggc ttcgttggct aagttagggg tottagcctt gcatgcgttg tgggcatcaa 1080
atctacctcc aaaagaccca tcctggggag ccctctggcc cctcgttgcc ttttcacttc 1140
aaaacctctt ttttctggga gaggccctga accctgtgcg ggagagctgg tcctccagcc 1200
ctggcaggcc ctcagccagc ttcccagcaa gacaaagggc acccttgttg ctttgggacc 1260
taagtgggtg gggttccga ggtcactgag gactggtacc tcgggaacgc aagctgtcag 1320
tggaactgtc ccacaagaat tcacaggtct caaagcagga acagtgggtt tgtgtctcac 1380
ctgagtatct ggaattttat tttttcaagt aaaattttca atgaaacgtc c 1431
```

<210> 11326  
<211> 199  
<212> PRT  
<213> Homo sapiens

```
<400> 11326
Met Ser Lys Ser Ala Val Lys Ile Ser Leu Asp Leu Leu Ser Asn Pro
 1             5             10             15
Leu Cys Glu Gln Asp Gln Asp Leu Leu Asn Met Val Thr Ala Leu Asp
      20             25             30
Thr Ala Met Lys Arg Met Asp Ala Phe Asn Gln Glu Lys Val Asn Gln
      35             40             45
Ile Gln Lys Thr Val Ile Glu Pro Leu Lys Lys Phe Gly Ser Val Phe
      50             55             60
Pro Ser Leu Ile Met Ala Val Lys Arg Arg Glu Gln Ala Leu Gln Asp
      65             70             75             80
Tyr Arg Arg Leu Gln Ala Lys Val Glu Lys Tyr Glu Glu Lys Glu Lys
      85             90             95
Thr Gly Pro Val Leu Ala Lys Leu His Gln Ala Arg Glu Glu Leu Arg
      100            105            110
Pro Val Arg Glu Asp Phe Glu Ala Lys Asn Arg Gln Leu Leu Glu Glu
      115            120            125
Met Pro Arg Phe Tyr Gly Ser Arg Leu Asp Tyr Phe Gln Pro Ser Phe
      130            135            140
Glu Ser Leu Ile Arg Ala Gln Val Val Tyr Tyr Ser Glu Met His Lys
      145            150            155            160
Ile Phe Gly Asp Leu Ser His Gln Leu Asp Gln Pro Gly His Ser Asp
      165            170            175
Glu Gln Arg Glu Arg Glu Asn Glu Ala Lys Leu Ser Glu Leu Arg Ala
      180            185            190
Leu Ser Ile Val Ala Asp Asp
      195
```

<210> 11327  
<211> 1861  
<212> DNA  
<213> Homo sapiens

00629469.072800

<220>  
<221> CDS  
<222> (46).. (363)

<400> 11327

```
acagaaaaca ctagcatccc caccgcgga ctctgtaact ttttaatgtc tgatgaagag 60
tatgatgaca gaactgcacg ggtgctgatt ggacatatct caaagaagat gaacaaacag 120
actttccctg agcactgtag ttigtgtaaa gagatcttgc cattcacaga tcgcaaacag 180
gcagtctgtt ccaatggcca catttggctc cggctgttct taacctacca gtcctgccag 240
agtttgatat atagaaggtg ttigtctccat gacagcattg ccggcatcc agctccagaa 300
gatcccgact ggattaagag gttactgcaa agcccctgcc ctttctgtga ttctcctgtc 360
ttctaaataa tcagtgcagg gaagatggaa gggcatgatg aactctgcca tagaaaactt 420
cctccagcct gaagagaagg atgcactgga ggaagccgga ccctcacgag tggagagaag 480
tccttggtga ttgtaaagag ggcccctgga gctcatttct gaatcgcaact ctccatttcc 540
agagactaaa ggatgtcctt tgaaatggct ggactcagag agttggagtc gttttgagat 600
gagcattagc ccagccttg taaccaatga ggaacactta cttattttta agtatcttga 660
cagaagcaat ttgaacacag tgtcccgta tttctagaaa cagaatggtc tcttctagag 720
agcttgagata aggaccttgc tgggttgagt taggttttaa tccttgcttt ggtttggaac 780
tgccctcggg ctccagaact taaattgctt ggtccgtggc atctgatgta ccaacagaga 840
ttaaaagtgt aaagcaacac atgggctgat gttttgttct cagaaaatag ctgctggtct 900
gcattccctc attcttgttt tttatgcata tggaaaacat tttcctaaaa ctctatattc 960
ttaagtigaa gccaagacta aaatttaatg tgtcaaatga tctggtgact attataatga 1020
ataattgtga cttatttttc attctctcct gggtcacag gtttctgac ccaactcctt 1080
aatccgtata aagatgtcaa atactgtagt tcacccacgc cacagccctg cttcagactt 1140
aactgtggta gcctagatga gctatttcta cacagaggaa aaaaagatat tttcctcttt 1200
tagtaataag actttcagta tttttaatgt tgacatttcc agatgtttca tttagtatcc 1260
aggggtctgt ctggagactt ccagagaggg acagctcaga agtgagaccc ttgagctctg 1320
gtgctgtaag cttgtgcaat taagttgaac agagcctggg aatttctttc ctctgcacag 1380
tcccttgata tttggaatcc aggttctgcc cccaacccct acccaccag tggctctgta 1440
agatgtctca gatggggctg ggcttggttg ctcatgcctg tactctcaac actttgggaa 1500
gcaaaggcag gcagatcaca aggtcaggag ttcagcctaa ccaacatggt gaaaccgtgt 1560
ctctactaaa aatacaaaaa ttagccaggc gtggtggtgc acacctgtaa tcccagcact 1620
ttgggaggcc gaggcagacg ggtcacttga ggccaggagt tcgagaccag cctggggcaat 1680
atggcgagac tccgtctcta ctacaaatac aaaagtttagc ctggcatggt ggcgcagatg 1740
tgtaatctca gttactcagg aggtcaggc aggagcatca cttcaaccca ggaggcagaa 1800
gctgcagtca gccgaggtgg caccactgca cttcagcctg ggcaagactg gagactgcct 1860
c
```

<210> 11328  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 11328

```
Met Ser Asp Glu Glu Tyr Asp Asp Arg Thr Ala Arg Val Leu Ile Gly
  1           5           10          15
His Ile Ser Lys Lys Met Asn Lys Gln Thr Phe Pro Glu His Cys Ser
```

003220" 5962960

	20		25		30										
Leu	Cys	Lys	Glu	Ile	Leu	Pro	Phe	Thr	Asp	Arg	Lys	Gln	Ala	Val	Cys
	35		40		45										
Ser	Asn	Gly	His	Ile	Trp	Leu	Arg	Cys	Phe	Leu	Thr	Tyr	Gln	Ser	Cys
	50		55		60										
Gln	Ser	Leu	Ile	Tyr	Arg	Arg	Cys	Leu	Leu	His	Asp	Ser	Ile	Ala	Arg
	65		70		75										80
His	Pro	Ala	Pro	Glu	Asp	Pro	Asp	Trp	Ile	Lys	Arg	Leu	Leu	Gln	Ser
			85		90									95	
Pro	Cys	Pro	Phe	Cys	Asp	Ser	Pro	Val	Phe						
	100							105							

<210> 11329  
 <211> 2392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (128).. (1330)

<400> 11329

tgctgtccag	ggtgacaatt	ctcaggtgct	gcagctcctt	ggaaggaacg	cagtggctgg	60
cctgaaccag	gtgaataacc	aagggctgac	ccgctgcac	ctggcctgcc	agctggggaa	120
gcaggagatg	gtccgcgtgc	tgctgctgtg	caatgctogg	tgcaacatca	tgggccccaa	180
cggctacccc	atccactcgg	ccatgaagtt	ctctcagaag	gggtgtgogg	agatgatcat	240
cagcatggac	agcagccaga	tccacagcaa	agacccccgt	tacggagcca	gccccctcca	300
ctgggccaag	aacgcagaga	tggcccgcgt	gctgctgaaa	cggggctgca	acgtgaacag	360
caccagctcc	gcggggaaca	cggccctgca	cgtggcgggtg	atgocgaacc	gcttcgactg	420
tgccatagtg	ctgctgaccc	acggggccaa	cgcggtatgcc	cgcgagagac	acggcaacac	480
cccgtctcac	ctggccatgt	cgaagacaaa	cgtggagatg	atcaaggccc	tcatcgtgtt	540
cggagcagaa	gtggacaccc	cgaatgactt	tggggagact	cctacattcc	tagcctccaa	600
aatcggcaga	cttgtcacca	ggaaggcgat	cttgactctg	ccgagaaccg	tgggggcccga	660
atactgcttc	ccacccatcc	acgggggtccc	cgcgagagcag	ggctctgcag	cgccacatca	720
tcccttctcc	ctggaaagag	ctcagccccc	accgatcagc	ctaaacaacc	tagaactaca	780
ggatctcatg	cacatctcac	gggcccggaa	gccagcgttc	atcctgggct	ccatgaggga	840
cgagaagcgg	accacgacc	acctgctgtg	cctggatgga	ggaggagtga	aaggcctcat	900
catcatccag	ctcctcatcg	ccatcgagaa	ggcctcgggt	gtggccacca	aggacctgtt	960
tgactgggtg	gcgggcacca	gcactggagg	catcctggcc	ctggccattc	tgcacagtaa	1020
gtccatggcc	tacatgcgcg	gcattgtactt	tgcattgaag	gatgagggtg	tccggggctc	1080
caggccctac	gagtcggggc	ccctggagga	gttcctgaag	cgggagtttg	gggagcacac	1140
caagatgacg	gacgtcagga	aacccaaggt	gatgctgaca	gggacactgt	ctgaccggca	1200
gccggctgaa	ctccacctct	tccggaacta	cgatgctcca	gaaactgtcc	gggagcctcg	1260
tttcaaccag	aacgttaacc	tcaggcctgc	agggtctgct	ctgccccctt	ccctgactgt	1320
caaggacaac	tgactcccc	atcagctcct	acttacttcc	gacccaatgg	gcgcttctctg	1380
gacgggtgggc	tgctggccaa	caacccacag	ctggatgcca	tgaccgagat	ccatgagtac	1440
aatcaggacc	tgatccgcaa	gggtcaggcc	aacaaggatga	agaaactctc	catcgttgtc	1500

09629469.072800

```

tccctgggga cagggaggtc cccacaagtg cctgtgacct gtgtggatgt cttccgtccc 1560
agcaaccctt gggagctggc caagactgtt tttggggcca aggaactggg caagatggtg 1620
gtggactgtt gcacggatcc agacgggagg gctgtggacc gggcacgggc ctggtgcgag 1680
atggtcggca tccagtactt cagattgaac ccccagctgg ggacggacat catgctggat 1740
gaggtcagtg acacagtgtt ggtcaacgcc ctctggggaga ccgaggtcta catctatgag 1800
caccgcgagg agttccagaa gctcatccag ctgctgtctt caccctgagg gtcccagcc 1860
tctcaccggc cccagctgac ctctgccatt cagcccttgc caggccaagc ccagccactg 1920
ccctcccgga cagatctggg cccaggcacc tctgagtcca tagaccaggc ctggggagaat 1980
gccaaagctgc ctgcccaggg ctggtcctga aggcctgtct cccactaacc ccgccttcca 2040
gcactttctg tcattccagg ctgggaaagt ctagagcccc ctttggcccc tttccctgac 2100
tgtcaaggac aactgactcc caggcttcct ggtgggtgca gcccactccc tctgccctct 2160
gctccgttcc ctgggggctg ggactaaaga aatgggtgtc ccccaccca tcagctggga 2220
aagcccaggc cgcaggagtg ggatgccgtg tggactttgc ccctcacact ggcccagccc 2280
ctcacactgc cccacccga gaacctcag ctctcaaagg tcaactcctgg gagtttcttc 2340
ttcccaatgg aagtggctta agagccaaaa ctgaaataaa tcatttggat tc 2392

```

<210> 11330  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 11330

Met	Val	Arg	Val	Leu	Leu	Cys	Asn	Ala	Arg	Cys	Asn	Ile	Met	Gly
1				5				10					15	
Pro	Asn	Gly	Tyr	Pro	Ile	His	Ser	Ala	Met	Lys	Phe	Ser	Gln	Lys
			20					25					30	
Cys	Ala	Glu	Met	Ile	Ile	Ser	Met	Asp	Ser	Ser	Gln	Ile	His	Ser
			35				40					45		
Asp	Pro	Arg	Tyr	Gly	Ala	Ser	Pro	Leu	His	Trp	Ala	Lys	Asn	Ala
			50				55				60			
Met	Ala	Arg	Met	Leu	Leu	Lys	Arg	Gly	Cys	Asn	Val	Asn	Ser	Thr
					70					75				80
Ser	Ala	Gly	Asn	Thr	Ala	Leu	His	Val	Ala	Val	Met	Arg	Asn	Arg
				85					90					95
Asp	Cys	Ala	Ile	Val	Leu	Leu	Thr	His	Gly	Ala	Asn	Ala	Asp	Ala
				100					105				110	
Gly	Glu	His	Gly	Asn	Thr	Pro	Leu	His	Leu	Ala	Met	Ser	Lys	Asp
				115				120					125	
Val	Glu	Met	Ile	Lys	Ala	Leu	Ile	Val	Phe	Gly	Ala	Glu	Val	Asp
						135					140			
Pro	Asn	Asp	Phe	Gly	Glu	Thr	Pro	Thr	Phe	Leu	Ala	Ser	Lys	Ile
					150					155				160
Arg	Leu	Val	Thr	Arg	Lys	Ala	Ile	Leu	Thr	Leu	Pro	Arg	Thr	Val
					165				170					175
Ala	Glu	Tyr	Cys	Phe	Pro	Pro	Ile	His	Gly	Val	Pro	Ala	Glu	Gln
				180				185					190	
Ser	Ala	Ala	Pro	His	His	Pro	Phe	Ser	Leu	Glu	Arg	Ala	Gln	Pro

00629469.072800



195	200	205
Pro Ile Ser Leu Asn Asn Leu Glu Leu Gln Asp Leu Met His Ile Ser		
210	215	220
Arg Ala Arg Lys Pro Ala Phe Ile Leu Gly Ser Met Arg Asp Glu Lys		
225	230	235
Arg Thr His Asp His Leu Leu Cys Leu Asp Gly Gly Gly Val Lys Gly		
	245	250
Leu Ile Ile Ile Gln Leu Leu Ile Ala Ile Glu Lys Ala Ser Gly Val		
	260	265
Ala Thr Lys Asp Leu Phe Asp Trp Val Ala Gly Thr Ser Thr Gly Gly		
	275	280
Ile Leu Ala Leu Ala Ile Leu His Ser Lys Ser Met Ala Tyr Met Arg		
290	295	300
Gly Met Tyr Phe Arg Met Lys Asp Glu Val Phe Arg Gly Ser Arg Pro		
305	310	315
Tyr Glu Ser Gly Pro Leu Glu Glu Phe Leu Lys Arg Glu Phe Gly Glu		
	325	330
His Thr Lys Met Thr Asp Val Arg Lys Pro Lys Val Met Leu Thr Gly		
	340	345
Thr Leu Ser Asp Arg Gln Pro Ala Glu Leu His Leu Phe Arg Asn Tyr		
	355	360
Asp Ala Pro Glu Thr Val Arg Glu Pro Arg Phe Asn Gln Asn Val Asn		
	370	375
Leu Arg Pro Ala Gly Leu Pro Leu Pro Leu Ser Leu Thr Val Lys Asp		
385	390	395
Asn		400

<210> 11331  
 <211> 1734  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (53).. (754)

<400> 11331  
 attgcacact gcactttctg agttatgctt ctctataaat tatgtaccaa acatggtggt 60  
 atgggaacat acctttaccc cactgagaata ttgactttct catctggaaa tacgctttac 120  
 caagtcaatt gttgggatga ctatgtataa tcaagccaca caggaaattg caaaaccttc 180  
 agaacttcta acaagtgtaa gagcatacat gaccgtactc cagtcaatag aaaactatgt 240  
 gcagattgat attacaagag tatttaataa tgtgcttctt caacaaacac aacatttaga 300  
 cagtcattgga gagccaacca ttacaagtct atacacaaat tggatatttg aaactttgtt 360  
 acgacaagtc agcaatggcc atatagcata ttttcctgca atgaaaagcg ttgtgaactt 420  
 acctacagaa aatgaattaa cattcaatgc agaggaatat totgacatat cagaaatgag 480  
 gtcattatca gaactactag gcccatatgg tatgaagttt ctaagtgaat gccttatgtg 540



Leu Met Trp His Ile Ser Ser Gln Val Ala Glu Leu Lys Lys Leu Val  
                          165                          170                          175  
Val Glu Asn Val Asp Val Leu Thr Gln Met Arg Thr Ser Phe Asp Lys  
                          180                          185                          190  
Pro Asp Gln Met Ala Ala Leu Phe Lys Arg Leu Ser Ser Val Asp Ser  
                          195                          200                          205  
Val Leu Lys Arg Met Ala Tyr Trp Arg Ile Ser Gly Ala Cys Ile Leu  
                          210                          215                          220  
Gln Ser Thr Glu Asn Trp Pro Gly Asp Arg  
225                                          230

<210> 11333  
<211> 1912  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (39).. (482)

<400> 11333  
ctatttttagt acaagtgaaa cagcctcgaa aaaaggtcat ggcttgcaaa accgctttta 60  
ataaaaccgg gttccaagaa gtgtttgato ctctcatta tgaactgttt tcactaaggg 120  
acaaagagat ttctgcagac ctggcagact tgtcggaaga attggacaac taccagaaga 180  
tgcggcgctc ctccaccgcc tcccgtgca tccacgacca ccactgtggg tcgcaggcct 240  
ccagcgtcaa acaaagcagg accaacctca gtgccatgga acttcctttc cgaaatgact 300  
ttgcacaacc acagccaatg aaaacattta atagcacctt caagaaaagt agttacactt 360  
tcaaacaggg acatgagtgc cctgagcagg ccctggaaga cagagtaatg gaggagattc 420  
cctgtgaaat ttatgtcagg gggcgagaag attctgcaca agcatccata tccattgact 480  
tctaattctt tgctaattgt gatgtgaatt cttagggtgt gtacgtacgc agcctccagg 540  
gcaccatact gtttccagca gccaaacctt ttctcccato acaactacga agaccttgat 600  
ttaccgttaa cctattgtat ggtgatgttt ttattctctc aggcagtcta tatatgttaa 660  
accaatcaag gaacttactc tattcagtggt aaacaataat catctctatt gcttgggtgtc 720  
atttatagga agcactgccg gttaaagagc attagaagag gtggttggtt ggagccaggc 780  
tcagggtgcc tcttcgtttt agcaacaaga agactgctct tgactgataa cagctctgtc 840  
aatattttga tgccacaata aacttgattt ttctttacat tccttttatt ttctctttct 900  
ctaaatttaa tttgttttat aagcctatcg ttttaccatt tcattttctt acataagtac 960  
aagtggttaa tgtaccacat acttcagtat aggcatttgt tcttgagtgt gtcaaaatac 1020  
agctagttag tgtgccaatt aagaccaggt tgtatttcac ccactgtttt cttcttggct 1080  
aatctctgta cttctgcctt ttaattactg ggcccttatt ccttattttc tgtgagaaat 1140  
aatagatgat atgatttatt acctttcaat tatatttttc tcagttatac tagaaaattt 1200  
cataatcctg ggatatatgt accattgtca gctatgacta aaaatttgaa aaagataaaa 1260  
atttctagca agcctttgaa gtttaccaag tatagtcaca ttcagtgaca gccatttcac 1320  
tccagtaaag aatcatttca ttcactttgg gagaggccta taattacatt tatttgcaat 1380  
gtttctcttc gctagattgt tacatagctc ccattctgtt ggttttgctt acagcatatg 1440  
gtaaccaagg ttagatgccg gttaaaattc cttagaaatt ggatgagcct tgagattgct 1500  
tcttaactgg gacatgacat ttttctagct cttatcaaga ataacaactt ccactttttt 1560



00320'69462960

gaaaattgca	ttaccttaca	ggattttaat	cgggcaccag	aattaaaaga	agaaataaaa	180
gcattagaag	atgccagaat	aaaccttttg	aaagagacag	agcaacttga	aattaaagaa	240
gtccacatag	agaagaatga	tgctgaaaca	ttgcagaaat	gtcttatttt	gtgctatgaa	300
ctgttgaagc	agatgtccat	ttcaacaggc	ttaagtgcac	ccatgaatgg	aatcatcgaa	360
tctttgattc	ttcctggaat	aataagtatt	catcctgttg	taagaaacct	ggctgtttta	420
tgcttgggat	gctgtggact	acagaatcag	gattttgcaa	ggaaacactt	cgtattacta	480
ttgcagggtt	tgcaaattga	tgatgtcaca	ataaaaataa	gtgctttaaa	ggcaatcttt	540
gaccaactga	tgacgttcgg	gattgaacca	tttaaaacta	aaaaaatcaa	aacacttcat	600
tgtgaaggta	cagaaataaa	cagtgatgat	gagcaagaat	caaaagaagt	tgaagagact	660
gctacagcta	agaatgttct	gaaactcctt	tctgatttct	tagatagtga	ggtatctgaa	720
cttaggaactg	gagctgcaga	aggactagcc	aagctgatgt	tctctgggct	tttggtcagc	780
agcaggattc	tttctcgtct	tattttgtta	tggtacaatc	ctgtgactga	agaggatgtt	840
caacttcgac	attgcctagg	cgtgttcttc	cccggtgttg	cttatgcaag	caggactaat	900
caggaatgct	ttgaagaagc	ttttcttcca	accctgcaaa	cactggccaa	tgcccctgca	960
tcttctcctt	tagctgaaat	tgatatcaca	aatgttgctg	agttacttgt	agatttgaca	1020
agaccaagtg	gattaaatcc	tcaggccaag	acttcccaag	attatcaggc	cttaacagta	1080
catgacaatt	tggtctatgaa	aatttgcgat	gagatcttaa	caagtccgtg	ctcgccagaa	1140
attcgagtct	atacaaaagc	cttgagttct	ttagaactca	gtagccatct	tgcaaaagat	1200
cttctgggtc	tattgaatga	gattctggag	caagtaaaag	ataggacatg	tctgagagct	1260
ttggagaaaa	tcaagattca	gttagaaaaa	ggaaataaag	aatttgggtga	ccaagctgaa	1320
gcagcacagg	atgccacctt	gactacaact	actttccaaa	atgaagatga	aaagaataaa	1380
gaagtatata	tgactccact	caggggtgta	aaagcaaccc	aagcatcaaa	gtctactcag	1440
ctaaagacta	acagaggaca	gagaaaagtg	acagtttcag	ctaggacgaa	caggagggtgt	1500
cagactgctg	aagccgactc	tgaaagtgat	catgaagttc	cagaaccaga	atcagaaatg	1560
aagatgagac	taccaagacg	agccaaaacc	gcagcactag	aaaaaagtaa	acttaacctt	1620
goccaatttc	tcaatgaaga	tctaagttag	gaaagacgat	ggagggtggaa	tctttaaga	1680
ttatgtccag	ttatttgctt	taataaagaa	gaagttaccc	ttgtcaaaat	cagaacaaac	1740
ctgatgtctt	tctgaagatt	ttctgctgtg	cgcttccacg	ttactttggc	ctgtattaaa	1800
gcagtagagc	agcatcagtt	attatagtcc	agaaaaagtg	cgcatcagtc	agtcacacag	1860
atttatcaca	atctgagggtg	ggcctaggaa	tctcattttt	aaatagtctc	tccaagtgat	1920
tottatgaac	tctttatgtt	taaaatcatg	tcattatgga	aaacttacaa	gtgtaactag	1980
ctagtagctt	gcatttgaga	agcttatgac	ttagatgggc	agaatcaaca	aagatgaaac	2040
cgccgtagga	cacatttaac	aagtaacatt	tctagggaaa	atgaaggaag	taccacaaac	2100
tggtctagaaa	ggagcttatc	aatcaccagt	gaggaagacc	agtataacgt	tcaacaacag	2160
ttattttgac	aaaaacttat	tttgtgattc	ctacagtga	aacatttttg	gtgatatctg	2220
cctgggaaat	ctctcttcct	aaagtatttg	tatatgggag	tcttgttttg	tgaatgtttc	2280
ctggattagg	gaggtgtcaa	cataaatgta	ttattaacca	tgaagctgct	cgctatatatt	2340
ttggcataac	aaaataatat	ttatttactg	tggtataata	ttctagtggg	aatataatgt	2400
gacaggaact	tctctttata	tacgctacca	atttatgagc	actattcact	gtcaatttca	2460
tttcttgtct	tttgaaattg	acacttggcc	tgacttacga	aacttgtact	atatgaaatt	2520
ggtcctcttt	tctgcaatac	ccaacgaaac	accttttctc	tttattatto	agaaatgtcc	2580
taacatggat	ctgtttgttt	taataattgt	gcttttttta	ggcttatcat	ctactagagg	2640
ccatttactt	aaggtgaaat	tttaagatgg	agctaaagta	agatcactgg	tttttagaac	2700
caaattgcta	tacatatgtg	cctcatagaa	cttataaaag	gagtcaaagt	ttcaaagcaa	2760
gatagttatt	aagcaaaaagg	aaaagtggta	atgatagaaa	gtcagttaaa	aatagatgat	2820
tgttcttcat	tctgtttgtt	ggctctgtgt	tctcctgtgc	ttcagattcc	ttatgtgttg	2880
ttgttttaaa	gacaatttgc	aggggggttg	gagaaggact	gaaaaggtag	attaagtgtg	2940
ctgtaaggaa	aagtottaga	aacataataa	gctaaaatcc	cattcacaca	tggccaggct	3000

atccaaaaag aaaggagcca tgttctcatg tggtttacca taccaaagct tgctttctct 3060  
ggcatgggaa aaataaattt aagcacc 3087

<210> 11336  
<211> 524  
<212> PRT  
<213> Homo sapiens

<400> 11336  
Met Ala Glu Ile Lys Val Lys Leu Ile Glu Ala Lys Glu Ala Leu Glu  
1 5 10 15  
Asn Cys Ile Thr Leu Gln Asp Phe Asn Arg Ala Pro Glu Leu Lys Glu  
20 25 30  
Glu Ile Lys Ala Leu Glu Asp Ala Arg Ile Asn Leu Leu Lys Glu Thr  
35 40 45  
Glu Gln Leu Glu Ile Lys Glu Val His Ile Glu Lys Asn Asp Ala Glu  
50 55 60  
Thr Leu Gln Lys Cys Leu Ile Leu Cys Tyr Glu Leu Leu Lys Gln Met  
65 70 75 80  
Ser Ile Ser Thr Gly Leu Ser Ala Thr Met Asn Gly Ile Ile Glu Ser  
85 90 95  
Leu Ile Leu Pro Gly Ile Ile Ser Ile His Pro Val Val Arg Asn Leu  
100 105 110  
Ala Val Leu Cys Leu Gly Cys Cys Gly Leu Gln Asn Gln Asp Phe Ala  
115 120 125  
Arg Lys His Phe Val Leu Leu Gln Val Leu Gln Ile Asp Asp Val  
130 135 140  
Thr Ile Lys Ile Ser Ala Leu Lys Ala Ile Phe Asp Gln Leu Met Thr  
145 150 155 160  
Phe Gly Ile Glu Pro Phe Lys Thr Lys Lys Ile Lys Thr Leu His Cys  
165 170 175  
Glu Gly Thr Glu Ile Asn Ser Asp Asp Glu Gln Glu Ser Lys Glu Val  
180 185 190  
Glu Glu Thr Ala Thr Ala Lys Asn Val Leu Lys Leu Leu Ser Asp Phe  
195 200 205  
Leu Asp Ser Glu Val Ser Glu Leu Arg Thr Gly Ala Ala Glu Gly Leu  
210 215 220  
Ala Lys Leu Met Phe Ser Gly Leu Leu Val Ser Ser Arg Ile Leu Ser  
225 230 235 240  
Arg Leu Ile Leu Leu Trp Tyr Asn Pro Val Thr Glu Glu Asp Val Gln  
245 250 255  
Leu Arg His Cys Leu Gly Val Phe Phe Pro Val Phe Ala Tyr Ala Ser  
260 265 270  
Arg Thr Asn Gln Glu Cys Phe Glu Glu Ala Phe Leu Pro Thr Leu Gln  
275 280 285  
Thr Leu Ala Asn Ala Pro Ala Ser Ser Pro Leu Ala Glu Ile Asp Ile  
290 295 300

008220" 69462960

-4800/13211-

Thr Asn Val Ala Glu Leu Leu Val Asp Leu Thr Arg Pro Ser Gly Leu  
305 310 315 320  
Asn Pro Gln Ala Lys Thr Ser Gln Asp Tyr Gln Ala Leu Thr Val His  
325 330 335  
Asp Asn Leu Ala Met Lys Ile Cys Asp Glu Ile Leu Thr Ser Pro Cys  
340 345 350  
Ser Pro Glu Ile Arg Val Tyr Thr Lys Ala Leu Ser Ser Leu Glu Leu  
355 360 365  
Ser Ser His Leu Ala Lys Asp Leu Leu Val Leu Leu Asn Glu Ile Leu  
370 375 380  
Glu Gln Val Lys Asp Arg Thr Cys Leu Arg Ala Leu Glu Lys Ile Lys  
385 390 395 400  
Ile Gln Leu Glu Lys Gly Asn Lys Glu Phe Gly Asp Gln Ala Glu Ala  
405 410 415  
Ala Gln Asp Ala Thr Leu Thr Thr Thr Thr Phe Gln Asn Glu Asp Glu  
420 425 430  
Lys Asn Lys Glu Val Tyr Met Thr Pro Leu Arg Gly Val Lys Ala Thr  
435 440 445  
Gln Ala Ser Lys Ser Thr Gln Leu Lys Thr Asn Arg Gly Gln Arg Lys  
450 455 460  
Val Thr Val Ser Ala Arg Thr Asn Arg Arg Cys Gln Thr Ala Glu Ala  
465 470 475 480  
Asp Ser Glu Ser Asp His Glu Val Pro Glu Pro Glu Ser Glu Met Lys  
485 490 495  
Met Arg Leu Pro Arg Arg Ala Lys Thr Ala Ala Leu Glu Lys Ser Lys  
500 505 510  
Leu Asn Leu Ala Gln Phe Leu Asn Glu Asp Leu Ser  
515 520

<210> 11337  
<211> 1482  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (74).. (1039)

<400> 11337  
ctctctgacg aaggactgga aggtggcggt ggtgaagggt caggccgttg gggcggctca 60  
gaggcaggtg actatgaaag gcttatattt ccaacagagt tccacagatg aagaaataac 120  
atttgtattt caagaaaagg aagatcttcc tgttacagag gataactttg tgaaacttca 180  
agttaaagct tgtgctctga gccagataaa tacaaagctt ctggcagaaa tgaagatgaa 240  
aaaggattta tttcctgttg ggagagaaaat tgctggaatt gtattagatg ttggaagcaa 300  
ggtaccattc tttcaaccag atgatgaagt agttggaact ttgcccttg actctgaaga 360  
ccctggactt tgtgaagttg ttagagtaca tgagcattac ttggttcata aaccagaaaa 420  
ggtcacatgg acggaagcag caggaagcat tcgggatgga gtgcgtgcct atacagctct 480

09629469.072800

```
gcattatctt tctcatctct ctccctggaaa atcagtgctg ataatggatg gagcaagtgc 540
atttgggtaca atagctattc agttagcaca tcatagagga gccaaaagtga tttcaacagc 600
atgcagcctt gaagataagc agtgccttga aagattcaga cctcccatag cccgagtgat 660
tgatgtatct aatgggaaag ttcattgttgc tgaaagctgt ttggaagaaa caggtggcct 720
gggagtagat attgtcctag atgctggagt gagattatat agtaaagatg atgaaccagc 780
tgtaaaacta caactactac cacataaaca tgatatcatc acacttcttg gtgttggagg 840
ccactgggta acaacagaag aaaaccttca gttggatcct ccagatagcc actgcctttt 900
cctcaaggga gcaacgttag ctttcctgaa tgatgaagtt tggaatttgt caaatgtaca 960
acagggagaa tatctttcta cgtatcttaa aggatgtgat ggagaagtta tcaactggtg 1020
ttttcagacc tcagtgggat gaacccattc cactgtatga ggcaaaaagtt tccatggaag 1080
ctgttcagaa aaatcaagga agaaaaaagc aagtigtgtc attttaattt tottttttct 1140
cagacctcag tcggatgaac atattccagt atttgaagcc agaattttct ttggaaattg 1200
ttgagaaaaa ccaaggaaga taaaacaagt tgcattttta agcacgtttc tctgctaaga 1260
caagatgctc agttgacaca tttgaaaagt gtttgaaaaa ttcttgtgca aatgatcaag 1320
ataattctat aattaacatc ttaagggaat ttttctaaaa accttttcat tgtttctata 1380
tattttgccc ctgctataaa attccttcca tgaagaaaac tgcgtcttcc agcaaaaagtc 1440
acactactct tgataaaaagc tgttgcaggc ctttgctaag ct 1482
```

<210> 11338  
 <211> 322  
 <212> PRT  
 <213> Homo sapiens

<400> 11338

Met	Lys	Gly	Leu	Tyr	Phe	Gln	Gln	Ser	Ser	Thr	Asp	Glu	Glu	Ile	Thr
1				5					10					15	
Phe	Val	Phe	Gln	Glu	Lys	Glu	Asp	Leu	Pro	Val	Thr	Glu	Asp	Asn	Phe
			20					25					30		
Val	Lys	Leu	Gln	Val	Lys	Ala	Cys	Ala	Leu	Ser	Gln	Ile	Asn	Thr	Lys
		35					40					45			
Leu	Leu	Ala	Glu	Met	Lys	Met	Lys	Lys	Asp	Leu	Phe	Pro	Val	Gly	Arg
	50					55					60				
Glu	Ile	Ala	Gly	Ile	Val	Leu	Asp	Val	Gly	Ser	Lys	Val	Pro	Phe	Phe
65					70				75					80	
Gln	Pro	Asp	Asp	Glu	Val	Val	Gly	Thr	Leu	Pro	Leu	Asp	Ser	Glu	Asp
			85						90					95	
Pro	Gly	Leu	Cys	Glu	Val	Val	Arg	Val	His	Glu	His	Tyr	Leu	Val	His
		100						105					110		
Lys	Pro	Glu	Lys	Val	Thr	Trp	Thr	Glu	Ala	Ala	Gly	Ser	Ile	Arg	Asp
	115						120					125			
Gly	Val	Arg	Ala	Tyr	Thr	Ala	Leu	His	Tyr	Leu	Ser	His	Leu	Ser	Pro
	130					135					140				
Gly	Lys	Ser	Val	Leu	Ile	Met	Asp	Gly	Ala	Ser	Ala	Phe	Gly	Thr	Ile
145				150					155					160	
Ala	Ile	Gln	Leu	Ala	His	His	Arg	Gly	Ala	Lys	Val	Ile	Ser	Thr	Ala
			165					170					175		
Cys	Ser	Leu	Glu	Asp	Lys	Gln	Cys	Leu	Glu	Arg	Phe	Arg	Pro	Pro	Ile

09629469.072800



	180		185		190
Ala Arg Val Ile Asp Val Ser Asn Gly Lys Val His Val Ala Glu Ser					
	195		200		205
Cys Leu Glu Glu Thr Gly Gly Leu Gly Val Asp Ile Val Leu Asp Ala					
	210		215		220
Gly Val Arg Leu Tyr Ser Lys Asp Asp Glu Pro Ala Val Lys Leu Gln					
225		230		235	240
Leu Leu Pro His Lys His Asp Ile Ile Thr Leu Leu Gly Val Gly Gly					
	245		250		255
His Trp Val Thr Thr Glu Glu Asn Leu Gln Leu Asp Pro Pro Asp Ser					
	260		265		270
His Cys Leu Phe Leu Lys Gly Ala Thr Leu Ala Phe Leu Asn Asp Glu					
	275		280		285
Val Trp Asn Leu Ser Asn Val Gln Gln Gly Glu Tyr Leu Ser Thr Tyr					
	290		295		300
Leu Lys Gly Cys Asp Gly Glu Val Ile Asn Trp Cys Phe Gln Thr Ser					
305		310		315	320
Val Gly					

<210> 11339  
 <211> 1780  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (17).. (787)

<400> 11339  
 acaagcggcc acaaggatgg caggcttcgc ggagctcggg ctgtcatcgt ggctcgtgga 60  
 acaatgtcgg cagctgggtt tgaagaagcc cagcccgctg cagctcggct gcatccccgc 120  
 catcctggag gtcgagact gcttgggctg tgctaagaca ggagtgga agacagcagc 180  
 gtttgtcctt cccatcttgc agaagctgtc tgaggatccc tatggcatct tctgcctcgt 240  
 cctgacaccc accagggagc tggcctacca gatcgagag cggttcoggg tctggggaa 300  
 gcctctaggg ctgaaagact gcatcatcgt cgggtggcatg gacatgggtg cccaggcgt 360  
 ggagctctct cggaaccac acgtgggtcat cgccacgccc gggcgccctg cagatcacct 420  
 gcgcagctcc aacactttta gtataaagaa gatccgcttc ctggtgatgg atgaggcaga 480  
 ccggctgctg gaacagggct gactgactt caccgtggac ctggaggcca tctggcggc 540  
 tgtgccggcc cgcaggcaga cactgctgtt cagcgccacg ctgaccgaca cactccggga 600  
 gctgcagggt ctggccacca accagccctt cttctgggaa gcacaggccc cggtagcac 660  
 cgtggagcag ctggaccagc gctacctgct ggtgcctgag aaggtaagg acgcctacct 720  
 ggtccacctg atccagcgt tccaggatga gcacaggagc tgggtccatta tcatcttcac 780  
 caacacgtga agacctgcca gattctgtgc atgatgtgc gcaaattcag cttccccacc 840  
 gtggctctgc actccatgat gaagcagaaa gaacgctttg ccgccctagc caagttcaag 900  
 tccagcatct accggatcct gatcgcaaca gacgtggcct cccggggcct ggacatccct 960  
 acggtacagg tggatcatca ccacaacacc cccgggctcc ccaagatcta catccaccga 1020

003220.69462960

```

gtcggccgga cggcccggtgc agggcggcag ggtcaggcca tcacgctggt gacacagtac 1080
gacatccacc tgggtgcacgc catcgaggag cagatcaaga agaagctgga ggagtctctc 1140
gtggaagagg ccgaggtgct acagatcctc acacagggtca acgtggtgcg aagagagtgt 1200
gagatcaaac tggaggcggc ccactttgac gaaaagaagg agatcaacaa acggaagcag 1260
ctgatcctgg aggggaagga ccctgacctg gaggccaagc gcaaggctga gctggccaag 1320
atcaagcaga agaaccggcg cttcaaggag aagggtggagg agacgctgaa gcgacagaag 1380
gctggcaggg ctggccacaa ggggcgtcca cccaggacac cgtctgggtc ccactcaggc 1440
ccagtccctt cccagggcct ggtctgagcc ccacacggcc atctgcccag tccttgactc 1500
gtccatggag ctgagggtcg gaggaacctt ccttgggggc agcagccctt cccggggggc 1560
taccagtgcc cccacagcag aaccctgagg cgctcgtgtt gtgoggggcc tgctcctctg 1620
ccccgaaacc actggctggt cccttccttg agccctggcc aagattcagg ctgcagggga 1680
agaaaagaaca tgaccgggag gttgtgacct caaccgaagg tcacccccca ggggtgccgc 1740
atacaggagg tgcttaataa acgggtcttt tgacttcctc 1780

```

<210> 11340  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 11340

Met	Ala	Gly	Phe	Ala	Glu	Leu	Gly	Leu	Ser	Ser	Trp	Leu	Val	Glu	Gln
1				5					10					15	
Cys	Arg	Gln	Leu	Gly	Leu	Lys	Lys	Pro	Thr	Pro	Val	Gln	Leu	Gly	Cys
		20						25					30		
Ile	Pro	Ala	Ile	Leu	Glu	Gly	Arg	Asp	Cys	Leu	Gly	Cys	Ala	Lys	Thr
		35					40					45			
Gly	Ser	Gly	Lys	Thr	Ala	Ala	Phe	Val	Leu	Pro	Ile	Leu	Gln	Lys	Leu
	50					55					60				
Ser	Glu	Asp	Pro	Tyr	Gly	Ile	Phe	Cys	Leu	Val	Leu	Thr	Pro	Thr	Arg
	65				70					75				80	
Glu	Leu	Ala	Tyr	Gln	Ile	Ala	Glu	Arg	Phe	Arg	Val	Leu	Gly	Lys	Pro
				85					90					95	
Leu	Gly	Leu	Lys	Asp	Cys	Ile	Ile	Val	Gly	Gly	Met	Asp	Met	Val	Ala
			100					105				110			
Gln	Ala	Leu	Glu	Leu	Ser	Arg	Lys	Pro	His	Val	Val	Ile	Ala	Thr	Pro
		115					120					125			
Gly	Arg	Leu	Ala	Asp	His	Leu	Arg	Ser	Ser	Asn	Thr	Phe	Ser	Ile	Lys
	130					135					140				
Lys	Ile	Arg	Phe	Leu	Val	Met	Asp	Glu	Ala	Asp	Arg	Leu	Leu	Glu	Gln
	145				150					155				160	
Gly	Cys	Thr	Asp	Phe	Thr	Val	Asp	Leu	Glu	Ala	Ile	Leu	Ala	Ala	Val
			165						170					175	
Pro	Ala	Arg	Arg	Gln	Thr	Leu	Leu	Phe	Ser	Ala	Thr	Leu	Thr	Asp	Thr
		180						185					190		
Leu	Arg	Glu	Leu	Gln	Gly	Leu	Ala	Thr	Asn	Gln	Pro	Phe	Phe	Trp	Glu
	195					200						205			
Ala	Gln	Ala	Pro	Val	Ser	Thr	Val	Glu	Gln	Leu	Asp	Gln	Arg	Tyr	Leu

09629469.072600

210		215		220
Leu Val Pro Glu Lys Val Lys Asp Ala Tyr Leu Val His Leu Ile Gln				
225		230		235
Arg Phe Gln Asp Glu His Glu Asp Trp Ser Ile Ile Ile Phe Thr Asn				
	245		250	255
Thr				

<210> 11341  
 <211> 1831  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (53).. (1390)

<400> 11341

```

agttgccgct gtcgtccgca gagccagttc ctagcgcaga gccgcgcccgc ccatgaggga 60
gatcgtgcac atccaggcgg gccagtgcgg gaaccagatc ggcaccaagt tttgggaagt 120
gatcagcgat gagcacggca tcgacccggc cggaggctac gtgggagact cggcgctgca 180
gctggagaga atcaacgtct actacaatga gtcacgtct cagaaatatg tgcccagggc 240
cgccctggtg gacttagagc caggcaccat ggacagcgtg cggctctgggc cttttgggca 300
gcttttccgg cctgacaact tcacttttgg ccagacgggt gcagggaaca actgggcgaa 360
agggcactac acggagggcg cggagctggt ggacgcagt ctggacgtgg tgcggaagga 420
gtgcgagcac tgcgactgcc tgcagggtt ccagctcacg cactcgctgg gcggcggcac 480
gggctcaggc atgggcacgc tgctcatcag caagatccgt gaggagtcc cggaccgcat 540
catgaacacc ttcagcgtca tgccctcgcc caaggtgtcg gacacggtgg tggagcccta 600
caatgccaca ctgtcggcgc accagctggt ggagaatata gacgagacct actgcatcga 660
caacgaggcg ctctatgaca tctgcttccg cactctgaag ctgacaacgc ccacctacgg 720
ggacctcaac cacctggtgt cggccaccat gagtggggtc accacctcgc tgcgcttccc 780
gggccagctc aatgctgacc tgcgcaagct ggcggtgaac atggtgccct tcccgcgct 840
gcacttcttc atgcctggct tcgcgccgct caccagccgc ggcagccagc agtaccgggc 900
cctgaccgtg cccgagctca ccagcagat gttcgacgcc aggaacatga tggccgcctg 960
cgatccgccc catggccgct acctgaccgt ggccaccgtg ttccgcgggc ccatgtccat 1020
gaaggagggt gacgagcaga tgctggccat ccagagtaag aacagcagct acttcgtgga 1080
gtggattccc aacaacgtga aggtggccgt gtgcgacatc ccgccccgcg gcctgaagat 1140
ggcctccacc ttcacggca acagcacggc catccaggag ctgttcaagc gcactccga 1200
gcagttctca gccatgttcc ggcgcaaggc ctctctgcac tggttcacgg gtgagggcac 1260
ggatgaaatg gatttcaccg aggcggagag caacatgaac gacctggtat ccgagtacca 1320
gcagtaccag gatgccaccg ccaatgacgg ggaggaagct tttgaggatg aggaagagga 1380
gatcgatgga tagtcggaat agagccgccc caactcagat octacaacac gcaagttcct 1440
tcttgaaccc tggctgctcc taccctatgg ccctgaatgg tgcactggtt taattgtgtt 1500
ggtgtcggcc cctcacaat gcagccaagt catgtaatta gtcacttgga aaaaagacta 1560
aaaacagcag agaattcggt gttctaccca gtcagaagat cacaccatgg agactttcta 1620
ctagaggact tgaaagagaa ctgagggggc aaaaaataaa cttcaccttc cattaagtgt 1680
tcaagcatgt ctgcaaatta ggagggagtt agaaacagtc tttttcatcc tttgtgatga 1740
    
```

09529469.072800

agcctgaaat tgtgccgtgt tgccttatat gaatatgcag tatgggactt tgaaataatg 1800  
attcataata aaatactaaa cgtgtgtctt c 1831

<210> 11342

<211> 446

<212> PRT

<213> Homo sapiens

<400> 11342

Met	Arg	Glu	Ile	Val	His	Ile	Gln	Ala	Gly	Gln	Cys	Gly	Asn	Gln	Ile
1				5					10					15	
Gly	Thr	Lys	Phe	Trp	Glu	Val	Ile	Ser	Asp	Glu	His	Gly	Ile	Asp	Pro
			20					25					30		
Ala	Gly	Gly	Tyr	Val	Gly	Asp	Ser	Ala	Leu	Gln	Leu	Glu	Arg	Ile	Asn
		35					40					45			
Val	Tyr	Tyr	Asn	Glu	Ser	Ser	Ser	Gln	Lys	Tyr	Val	Pro	Arg	Ala	Ala
	50					55					60				
Leu	Val	Asp	Leu	Glu	Pro	Gly	Thr	Met	Asp	Ser	Val	Arg	Ser	Gly	Pro
65					70					75					80
Phe	Gly	Gln	Leu	Phe	Arg	Pro	Asp	Asn	Phe	Ile	Phe	Gly	Gln	Thr	Gly
			85						90					95	
Ala	Gly	Asn	Asn	Trp	Ala	Lys	Gly	His	Tyr	Thr	Glu	Gly	Ala	Glu	Leu
		100					105						110		
Val	Asp	Ala	Val	Leu	Asp	Val	Val	Arg	Lys	Glu	Cys	Glu	His	Cys	Asp
	115					120						125			
Cys	Leu	Gln	Gly	Phe	Gln	Leu	Thr	His	Ser	Leu	Gly	Gly	Gly	Thr	Gly
	130					135					140				
Ser	Gly	Met	Gly	Thr	Leu	Leu	Ile	Ser	Lys	Ile	Arg	Glu	Glu	Phe	Pro
145					150					155					160
Asp	Arg	Ile	Met	Asn	Thr	Phe	Ser	Val	Met	Pro	Ser	Pro	Lys	Val	Ser
			165						170					175	
Asp	Thr	Val	Val	Glu	Pro	Tyr	Asn	Ala	Thr	Leu	Ser	Val	His	Gln	Leu
		180						185					190		
Val	Glu	Asn	Thr	Asp	Glu	Thr	Tyr	Cys	Ile	Asp	Asn	Glu	Ala	Leu	Tyr
	195						200					205			
Asp	Ile	Cys	Phe	Arg	Thr	Leu	Lys	Leu	Thr	Thr	Pro	Thr	Tyr	Gly	Asp
	210					215					220				
Leu	Asn	His	Leu	Val	Ser	Ala	Thr	Met	Ser	Gly	Val	Thr	Thr	Ser	Leu
225					230					235					240
Arg	Phe	Pro	Gly	Gln	Leu	Asn	Ala	Asp	Leu	Arg	Lys	Leu	Ala	Val	Asn
			245						250					255	
Met	Val	Pro	Phe	Pro	Arg	Leu	His	Phe	Phe	Met	Pro	Gly	Phe	Ala	Pro
		260						265					270		
Leu	Thr	Ser	Arg	Gly	Ser	Gln	Gln	Tyr	Arg	Ala	Leu	Thr	Val	Pro	Glu
	275					280						285			
Leu	Thr	Gln	Gln	Met	Phe	Asp	Ala	Arg	Asn	Met	Met	Ala	Ala	Cys	Asp
	290					295					300				

003220.69462660

Pro Arg His Gly Arg Tyr Leu Thr Val Ala Thr Val Phe Arg Gly Pro  
 305 310 315 320  
 Met Ser Met Lys Glu Val Asp Glu Gln Met Leu Ala Ile Gln Ser Lys  
 325 330 335  
 Asn Ser Ser Tyr Phe Val Glu Trp Ile Pro Asn Asn Val Lys Val Ala  
 340 345 350  
 Val Cys Asp Ile Pro Pro Arg Gly Leu Lys Met Ala Ser Thr Phe Ile  
 355 360 365  
 Gly Asn Ser Thr Ala Ile Gln Glu Leu Phe Lys Arg Ile Ser Glu Gln  
 370 375 380  
 Phe Ser Ala Met Phe Arg Arg Lys Ala Phe Leu His Trp Phe Thr Gly  
 385 390 395 400  
 Glu Gly Met Asp Glu Met Glu Phe Thr Glu Ala Glu Ser Asn Met Asn  
 405 410 415  
 Asp Leu Val Ser Glu Tyr Gln Gln Tyr Gln Asp Ala Thr Ala Asn Asp  
 420 425 430  
 Gly Glu Glu Ala Phe Glu Asp Glu Glu Glu Glu Ile Asp Gly  
 435 440 445

<210> 11343  
 <211> 1938  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (657).. (1070)

<400> 11343  
 aggggaaatg ttctaagcag agcccgtcag gagcccaacgg gacacatttt ggagatgaca 60  
 gatttgaaga tctggaagag gcaaatccat tctcttttag agagtttctg aagaccaaga 120  
 acctcggcct ctcgaaagag gatccggcca gcagaattta tgcaaaggaa gcctcgaggc 180  
 attccctggg acttgaccac aactccccac cctcccaaac cggcgggtat ggccctggagt 240  
 atcagcagcc atttttcgag gatccgacag gggctggtga cctcctggat gaggaggagg 300  
 atgaggacac cggatggagt ggggcctacc tgccgtccgc catcgagcag actcaccocg 360  
 agagggtccc tgccggcacg tcgccctgca gcacatacct ttcttttttc tccaccccg 420  
 cggagctggc agggcctgag tctctgccct cgtgggcgtt gaggtagact gattctcgcg 480  
 tgtctccggc ctctccggca gggagtccca gcgcagactt tgcggttcat ggagagtctc 540  
 tgggagacag gcacctgcgg acgctgcaga taagttaaga cgcactgaaa gatgaaaatt 600  
 ctaagctgag aagaaagctg aatgaggttc agagcttctc tgaagctcaa acagaaatgg 660  
 tgaggacgct tgagcggag ttagaagcaa aaatgatcaa ggaggaaaagc gactaccacg 720  
 acctggagtc ggtggttcag cagggtggagc agaacctgga gctgatgacc aaacgggctg 780  
 taaaggcaga aaaccacgct gtgaaactaa aacaggaaat cagtttgctc caggcgcagg 840  
 tctccaactt ccagcgagag aatgaagccc tgcggtgcgg ccaggggcgcc agcctgaccg 900  
 tggatgaagca gaacgccgac gtggccctgc agaacctccg ggtggtcatg aacagtgcac 960  
 aggttccat caagcaactg gtttccggag ctgagacact gaatcttgtt gccgaaatcc 1020  
 ttaaatctat agacagaatt tctgaagtta aagacgagga ggaagactct tgaggacccc 1080

09629469.072800

```

tgggtgttct cagcatgaag ctccgtgtat accctgaggt caccaccgct cgatctaaat 1140
gtgcagttgt gtccttaaat atgcagtctt caccagagt aaagtgttga tcgcaagagt 1200
ccagtgtcgt gccctcagcc agttcttggc caccacaatg ggagcagccc tggccgagtt 1260
gtctctgtgg tttctatgca gcccttcttg gcgaaattcc tgcgatctta tagattctaa 1320
tgagctcttg gaagacattg tcataaaagc cagtgatitit aagaaaaagg gtggttcttg 1380
aatcagtggt ttccagtccc atcccagaac atcagttgta agataagtac aattggttgt 1440
ccttgatttc ataagtagaa caaacactaa atgtgcctct gagatggcca ccccgggcag 1500
ggacctgtgc cttccgccga tgcctcagggc tccctctggc tcccggttca ctcttctggc 1560
cccagtggtt ggtccctgca gtcattggcct gaggcgcag gggccaccgc gtggctgtctg 1620
ctgtcctcct ccgggaccca cggggaccaa ggtcacacgt tccgtgctgt gaagctgtcc 1680
agatgtgcct ctttggctgg gggttcttgt ggacgtttca agtggcattt tgtacaatgc 1740
aggtagaat tcaggaattt caagtatgtg cccgggtctg tcagggtcca gttgcctttc 1800
tgacggcccc cctcagaggg acggcgacga gactaaatg cttttttgac ttttttcta 1860
tagatttttt ttaaaacttt tttttcctcc tgttccaatt gatagctttc ttatttaata 1920
aattctgtag ttcaccgc

```

<210> 11344  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

```

<400> 11344
Met Val Arg Thr Leu Glu Arg Lys Leu Glu Ala Lys Met Ile Lys Glu
 1          5          10          15
Glu Ser Asp Tyr His Asp Leu Glu Ser Val Val Gln Gln Val Glu Gln
          20          25          30
Asn Leu Glu Leu Met Thr Lys Arg Ala Val Lys Ala Glu Asn His Val
          35          40          45
Val Lys Leu Lys Gln Glu Ile Ser Leu Leu Gln Ala Gln Val Ser Asn
          50          55          60
Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly Ala Ser Leu
          65          70          75          80
Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn Leu Arg Val
          85          90          95
Val Met Asn Ser Ala Gln Ala Ser Ile Lys Gln Leu Val Ser Gly Ala
          100          105          110
Glu Thr Leu Asn Leu Val Ala Glu Ile Leu Lys Ser Ile Asp Arg Ile
          115          120          125
Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
          130          135

```

<210> 11345  
 <211> 2728  
 <212> DNA  
 <213> Homo sapiens

09629469.072300

<220>  
<221> CDS  
<222> (733).. (2241)

<400> 11345

gatgcctaca	tcattgtgtc	tttcgtgaat	gccaccctag	tgttgtccat	tggagaaact	60
gtagaagaag	tgactgactc	tgggttcctg	gggaccaccc	cgaccttgtc	ctgctcctta	120
ttaggagatg	atgcccttgg	gcaggctctat	ccagatggca	tccggcacat	acgagcagac	180
aagagagtca	atgagtggaa	gacccctgga	aagaaaacaa	ttgtgaagtg	tgcagtgaac	240
cagcgacaag	tggtgattgc	cctgacagga	ggagagctgg	tctatttcga	gatggatcct	300
tcaggacagc	tgaatgagta	cacagaacgg	aaggagatgt	cagcagatgt	ggtgtgcatg	360
agtctggcca	atgtaccccc	tggagagcag	cggtctcgct	tcctggctgt	ggggcttgtg	420
gacaacactg	tcagaatcat	ctccctggat	ccctcagact	gtttgcaacc	tctaagcatg	480
caggctctcc	cagcccagcc	tgagtccttg	tgtatcgtgg	aaatgggtgg	gactgagaag	540
caggatgagc	tgggtgagag	gggctcgatt	ggcttcctat	acctgaatat	tgggctacag	600
aacgggtgtc	tgtgaggac	tgtcttggac	cctgtcactg	gggatttgtc	tgatactcgc	660
actcgggtacc	tgggttcccg	tcctgtgaag	ctcttcogag	tcogaatgca	aggccagtag	720
gcagtattgg	ccatgtcaag	ccgctcatgg	ttgagctatt	cttaccaatc	tcgcttccat	780
ctcaccacac	tgtcttacga	gacactggaa	tttgcacggg	gttttgccctc	ggaacagtgt	840
cccaggaggca	ttgtggccat	ctccaccaac	accctacgga	ttttggcatt	agagaagctc	900
ggtgctgtct	tcaatcaagt	agccttccca	ctgcagtaca	caccacaggaa	atttgtcatc	960
caccctgaga	gtaacaacct	tattatcatt	gaaacggacc	acaatgccta	cactgaggcc	1020
acgaaaagctc	agagaaaagca	gcagatggca	gaggaaatgg	tggaaagcagc	aggggaggat	1080
gagcggggagc	tggccgcaga	gatggcagca	gcattcctca	atgaaaacct	ccctgaatcc	1140
atctttggag	ctcccaaggc	tggcaatggg	cagtgggcct	ctgtgatccg	agtgatgaat	1200
cccattcaag	ggaacacact	ggaccttgtc	cagctggaac	agaatgaggc	agcttttagt	1260
gtggctgtgt	gcagggttttc	caacactggg	gaagactggg	atgtgctggg	gggtgtggcc	1320
aaggacctga	tactaaaccc	ccgatctgtg	gcagggggct	tcgtctatac	ttacaagctt	1380
gtgaacaatg	gggaaaaact	ggagtttttg	cacaagactc	ctgtggaaga	ggtccctgct	1440
gctattgccc	cattccaggg	gagggtgttg	attgggtgtg	ggaagctgtt	gcgtgtctat	1500
gacctgggaa	agaagaagtt	actccgaaaa	tgtgagaata	agcatattgc	caattatata	1560
tctgggatcc	agactatcgg	acatagggtg	attgtatctg	atgtccaaga	aagtttcatc	1620
tgggttcgct	acaagcgtaa	tgaaaaccag	cttatcatct	ttgctgatga	tacctacccc	1680
cgatgggtca	ctacagccag	cctcctggac	tatgacactg	tggctggggc	agacaagttt	1740
ggcaacatat	gtgtgggtgag	gctcccacct	aacaccaatg	atgaagtaga	tgaggatcct	1800
acaggaaaca	aagccctgtg	ggaccgtggc	ttgctcaatg	gggcctccca	gaaggcagag	1860
gtgatcatga	actaccatgt	cggggagacg	gtgctgtcct	tgcagaagac	cacgctgata	1920
cctggagggt	cagaatcact	tgtctatacc	accttgctct	gaggaattgg	catccttgtg	1980
ccattcacgt	cccatgagga	ccatgacttc	ttccagcatg	tggaaatgca	cctgcggtct	2040
gaacatcccc	ctctctgtgg	gcgggaccac	ctcagctttc	gctcctacta	cttccctgtg	2100
aagaatgtga	ttgatggaga	cctctgtgag	cagttcaatt	ccatggaacc	caacaaaaca	2160
aagaacgtct	ctgaagaact	ggaccgaacc	ccaccogaag	tgtccaagaa	actcgaggat	2220
atccggaccc	gctacgcctt	ctgagccctc	ctttcccggt	ggggcttgcc	agagactgtg	2280
tgttttgttt	ccccaccac	catcactgcc	acctggcttc	tgccatgtgg	caggagggtg	2340
actggataat	taagactgca	ttatgaaagt	caacagctct	ttccctcag	ctcttctcct	2400
ggaatgactg	gcttccccctc	aaattggcac	tgagatttgc	tacacttctc	cccacctggg	2460
acatgataca	tgaccccagg	ttccagtgtg	gaacctgagt	ccccattcc	ccaaagccat	2520
ccctgcattg	atatgtcttg	actctcctgt	ctacttttgc	acacaccctt	gatttttaaat	2580

09629469.072800

tggttttctt gtaaatacag ttttgiacaa tgttatctct gtgggaggaa ggaggcaggc 2640  
 tgtggtggga ctgggtaggg tatagtatca ctctgaggt ccactgctct agaatctaac 2700  
 cagaaataga aacctagttt ttaaggtg 2728

<210> 11346  
 <211> 503  
 <212> PRT  
 <213> Homo sapiens

<400> 11346

Met	Ser	Ser	Arg	Ser	Trp	Leu	Ser	Tyr	Ser	Tyr	Gln	Ser	Arg	Phe	His
1				5					10					15	
Leu	Thr	Pro	Leu	Ser	Tyr	Glu	Thr	Leu	Glu	Phe	Ala	Ser	Gly	Phe	Ala
			20					25					30		
Ser	Glu	Gln	Cys	Pro	Glu	Gly	Ile	Val	Ala	Ile	Ser	Thr	Asn	Thr	Leu
		35					40					45			
Arg	Ile	Leu	Ala	Leu	Glu	Lys	Leu	Gly	Ala	Val	Phe	Asn	Gln	Val	Ala
	50					55				60					
Phe	Pro	Leu	Gln	Tyr	Thr	Pro	Arg	Lys	Phe	Val	Ile	His	Pro	Glu	Ser
65					70				75					80	
Asn	Asn	Leu	Ile	Ile	Ile	Glu	Thr	Asp	His	Asn	Ala	Tyr	Thr	Glu	Ala
			85					90						95	
Thr	Lys	Ala	Gln	Arg	Lys	Gln	Gln	Met	Ala	Glu	Glu	Met	Val	Glu	Ala
			100					105					110		
Ala	Gly	Glu	Asp	Glu	Arg	Glu	Leu	Ala	Ala	Glu	Met	Ala	Ala	Ala	Phe
		115					120					125			
Leu	Asn	Glu	Asn	Leu	Pro	Glu	Ser	Ile	Phe	Gly	Ala	Pro	Lys	Ala	Gly
	130					135					140				
Asn	Gly	Gln	Trp	Ala	Ser	Val	Ile	Arg	Val	Met	Asn	Pro	Ile	Gln	Gly
145					150					155				160	
Asn	Thr	Leu	Asp	Leu	Val	Gln	Leu	Glu	Gln	Asn	Glu	Ala	Ala	Phe	Ser
			165						170					175	
Val	Ala	Val	Cys	Arg	Phe	Ser	Asn	Thr	Gly	Glu	Asp	Trp	Tyr	Val	Leu
			180					185					190		
Val	Gly	Val	Ala	Lys	Asp	Leu	Ile	Leu	Asn	Pro	Arg	Ser	Val	Ala	Gly
		195					200					205			
Gly	Phe	Val	Tyr	Thr	Tyr	Lys	Leu	Val	Asn	Asn	Gly	Glu	Lys	Leu	Glu
	210					215					220				
Phe	Leu	His	Lys	Thr	Pro	Val	Glu	Glu	Val	Pro	Ala	Ala	Ile	Ala	Pro
225					230					235				240	
Phe	Gln	Gly	Arg	Val	Leu	Ile	Gly	Val	Gly	Lys	Leu	Leu	Arg	Val	Tyr
			245						250					255	
Asp	Leu	Gly	Lys	Lys	Lys	Leu	Leu	Arg	Lys	Cys	Glu	Asn	Lys	His	Ile
			260					265					270		
Ala	Asn	Tyr	Ile	Ser	Gly	Ile	Gln	Thr	Ile	Gly	His	Arg	Val	Ile	Val
		275					280					285			
Ser	Asp	Val	Gln	Glu	Ser	Phe	Ile	Trp	Val	Arg	Tyr	Lys	Arg	Asn	Glu

05629469.072800



290	295	300
Asn Gln Leu Ile Ile Phe Ala Asp Asp Thr Tyr	Pro Arg Trp Val Thr	
305	310	315
Thr Ala Ser Leu Leu Asp Tyr Asp Thr Val Ala Gly Ala Asp Lys Phe		320
	325	330
Gly Asn Ile Cys Val Val Arg Leu Pro Pro Asn Thr Asn Asp Glu Val		335
	340	345
Asp Glu Asp Pro Thr Gly Asn Lys Ala Leu Trp Asp Arg Gly Leu Leu		350
	355	360
Asn Gly Ala Ser Gln Lys Ala Glu Val Ile Met Asn Tyr His Val Gly		365
	370	375
Glu Thr Val Leu Ser Leu Gln Lys Thr Thr Leu Ile Pro Gly Gly Ser		380
385	390	395
Glu Ser Leu Val Tyr Thr Thr Leu Ser Gly Gly Ile Gly Ile Leu Val		400
	405	410
Pro Phe Thr Ser His Glu Asp His Asp Phe Phe Gln His Val Glu Met		415
	420	425
His Leu Arg Ser Glu His Pro Pro Leu Cys Gly Arg Asp His Leu Ser		430
	435	440
Phe Arg Ser Tyr Tyr Phe Pro Val Lys Asn Val Ile Asp Gly Asp Leu		445
	450	455
Cys Glu Gln Phe Asn Ser Met Glu Pro Asn Lys Gln Lys Asn Val Ser		460
465	470	475
Glu Glu Leu Asp Arg Thr Pro Pro Glu Val Ser Lys Lys Leu Glu Asp		480
	485	490
Ile Arg Thr Arg Tyr Ala Phe		495
	500	

<210> 11347  
 <211> 1567  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (382).. (1053)

<400> 11347  
 cccaggctgc aacggaggca gagccaacgc ctgcgggggt tccacgtacg cactccaacg 60  
 cgtgttcccg gagaagaacg catccgggtc acgggagccg gtgtctcagg ctccgcccct 120  
 tcaccccccg aaatgctaata cccacttcc gacctctca ggcttttcc gcttctcttt 180  
 tacctcccca ggtccgcccg tctgcgccc tcacaggaag cgggagggtc gctctgatcc 240  
 cgaatctccc acaggcgtga acctgctctg ctgtgtatct ttgcgggggtg gcctgcgctg 300  
 aggccctgcc cgcgcggtga gtcgcgcag acctgacct gcgtctcgca gctcggttga 360  
 ggccgccgcc gccttctcgg gatgcgcgg cgggggtccg cgcagcgtg ggccggccgtc 420  
 gcggggccgtt gggggtgcag gctgctcgca ctgctgtac tgggtgcctgg acccggcggc 480  
 gcctctgaga tcaccttga gcttctgac aacgccaagc agtgcttcta cgaggacatc 540

008220"69462960

```

gtcagggca ccaagtgcac cctggagttc caggtgatta ctggtggtca ctatgatgta 600
gattgtcgat tagaagatcc tgatggtaaa gtgttatata aagagatgaa gaaacagtat 660
gatagtitta ccttcacagc ctccaaaaat gggacataca aattttgctt cagcaatgaa 720
ttttctactt tcacacataa aactgtatat ttgtattttc aagtgggaga agaccacact 780
ttgtttccta gtgagaaccg agtcagtgc tttaccaga tggaatctgc ctgtgtttca 840
attcacgaag ctctgaagtc tgtcatcgat tatcagactc atttccgttt aagagaagct 900
caaggccgaa gccgagcaga ggatctaaat acaagagtgg cctattggtc agtaggagaa 960
gccctcattc ttctggtggt tagcataggg caggtatttc ttttgaagag ctttttccca 1020
gataaaagaa ccaccacaac tcgtgttgga tcataactac gttttgagaa ttgatgcacc 1080
attgccactg taatattgct gtctctaat taattttagg tactgaagaa cttaatattg 1140
gcaacatttt taaatcctta ctcatacact tgttgggagg gatgtacaat gcatattccc 1200
aaaactgtggg aaggacacct ttttttattt gtaaagggtg aaaaactttg gaactcattt 1260
tgggctattc atgttaaata ttcaacacca atgatctact ctgttcgcag ttgtttatat 1320
ctactcttcg cactactaaac ttttggtattt tgattccttt taaccattta agactacttt 1380
tcttataggt agttgatatt ttaaaaactt tagatttaat gtctacatgt gttagggagg 1440
aagaaaattg ccttttaatt gttaataaga aaaccaaattg tgatgaactg tagcccaagc 1500
cctattctgc actgttcagt tttatggagg aaaaataaat ctaccatagg aatgttagtt 1560
aatattg
1567

```

<210> 11348  
 <211> 224  
 <212> PRT  
 <213> Homo sapiens

<400> 11348

Met	Pro	Arg	Pro	Gly	Ser	Ala	Gln	Arg	Trp	Ala	Ala	Val	Ala	Gly	Arg
1				5					10					15	
Trp	Gly	Cys	Arg	Leu	Leu	Ala	Leu	Leu	Leu	Val	Pro	Gly	Pro	Gly	
			20					25				30			
Gly	Ala	Ser	Glu	Ile	Thr	Phe	Glu	Leu	Pro	Asp	Asn	Ala	Lys	Gln	Cys
		35					40					45			
Phe	Tyr	Glu	Asp	Ile	Ala	Gln	Gly	Thr	Lys	Cys	Thr	Leu	Glu	Phe	Gln
	50					55					60				
Val	Ile	Thr	Gly	Gly	His	Tyr	Asp	Val	Asp	Cys	Arg	Leu	Glu	Asp	Pro
	65				70				75					80	
Asp	Gly	Lys	Val	Leu	Tyr	Lys	Glu	Met	Lys	Lys	Gln	Tyr	Asp	Ser	Phe
			85						90				95		
Thr	Phe	Thr	Ala	Ser	Lys	Asn	Gly	Thr	Tyr	Lys	Phe	Cys	Phe	Ser	Asn
			100					105					110		
Glu	Phe	Ser	Thr	Phe	Thr	His	Lys	Thr	Val	Tyr	Phe	Asp	Phe	Gln	Val
		115					120					125			
Gly	Glu	Asp	Pro	Pro	Leu	Phe	Pro	Ser	Glu	Asn	Arg	Val	Ser	Ala	Leu
	130					135					140				
Thr	Gln	Met	Glu	Ser	Ala	Cys	Val	Ser	Ile	His	Glu	Ala	Leu	Lys	Ser
	145				150					155				160	
Val	Ile	Asp	Tyr	Gln	Thr	His	Phe	Arg	Leu	Arg	Glu	Ala	Gln	Gly	Arg
				165					170					175	

Ser Arg Ala Glu Asp Leu Asn Thr Arg Val Ala Tyr Trp Ser Val Gly  
180 185 190  
Glu Ala Leu Ile Leu Leu Val Val Ser Ile Gly Gln Val Phe Leu Leu  
195 200 205  
Lys Ser Phe Phe Pro Asp Lys Arg Thr Thr Thr Thr Arg Val Gly Ser  
210 215 220

<210> 11349  
<211> 1929  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (290).. (787)

<400> 11349  
atcacgggga gtctagggaa aggggggaaag tcttccagcc tgtgaacttt aaccagattc 60  
ctacttgtgc aagaagcaga agcacaattt gaagttaata gaagctttct catggagAAC 120  
tttattccgt ccctgagctc ttctagcaag ttgttttggA gttgactacg cagtgacgac 180  
ggagattacc cagtcaacta tttttgaacg ctgaaaggga aaatcacctt taaattgaaa 240  
agataatttt cagaagagat ttgactgtat ttigtgtctc tcagcattca tgcaaagggtg 300  
ttcgcgaggt acagaaacgg agtatgatga ctggacttct ctgttctott tcaggtttat 360  
taatgccaga agaagaatag tacagcccat gattgaccag tcaaatcgag cagtgagcca 420  
aggagcagca tatagtccag agggtcagcc catgggggagc ttigtgttgg atggtcagca 480  
acacatgggg atccggcctg caggtttgca gagcatgccA ggggactacg tttctcaggg 540  
tggtcctatg ggaatgagta tggcacagcc aagttacact cctccccaga tgacccccaca 600  
ccctactcaa ttaagacatg gacccccaat gcattcatat ttgccaagcc atccccacca 660  
cccagccatg atgatgcacg gaggaccccc taccacacct ggaatgacta tgtcagcaca 720  
gagccccaca atgttaaatt ctgtagatcc caatgttggc ggacagggtA tggacattca 780  
tgcccaatag tataagggaa ctcaagggaa aaggaaacac acgcaaaaaac tattttaaga 840  
ctttctgaac ttgaccaga tgttgacact taatatgaaa ttccagacag ctgtgattat 900  
tttttacttt tgtcattttt catcaagcaa cagaggacca atgcaagaag aacacaaatg 960  
tgaaatcatg ggctgactga gacaattctg tccatgtaaa gatcctcttg aaaaagactc 1020  
cgagagttaa aactactgta gtataaatat aggaactaag ttaaacttgt acatttctgt 1080  
tgatcacgcc gttatgttgc ctcaaatagt tttagaagag aaaaaaaaaa atatccttgt 1140  
tttccacact atgtgtgttg ttcccaaaag aatgactgtt ttggttcacA agtgaattca 1200  
ccatccagga gagactgttg tatatatatt aaacctgttg ggccaatgag aaaagaacca 1260  
cactggagat catgatgaac ttttggctga acctcatcac tgaactcca gottcaagaa 1320  
tgtgttttca tgcccgccct ttgttcctcc ataaatgtgt ccttttagttt caaacagatc 1380  
tttatagttc gtgcttcata agccaattct tattattatt ttggggggac tcttcttcaa 1440  
agagcttgcc aatgaagatt taaagacaga gcaggagctt cttccaggag ttctgagcct 1500  
tggttgtgga caaaacaatc ttaagttggg cagctttcct caacacaaaa aaagttatta 1560  
atggtcattg aaccataact aggactttat cagaaactca aagcttgggg gataaaaagg 1620  
agcaagagaa tactgtaaca aacttcgtac agagttcggg ctattaattg tttcatgtta 1680  
gatattctat gtgtttacct caattgaaaa aaaaaagaat gtttttgcta gtatcagatc 1740  
tgctgtggaa ttggtattgt atgtccatga attcttcttt tctcagcacg tgttcctcac 1800

09629469.072800

tagaagaaaa tgctgttacc ttttaagcttt gtcaaattta cattaaaata cttgtatgag 1860  
gactgtgacg ttatgttaaa aaaaaaagggt gtttaagtcac aaaaagcggg aataaatatt 1920  
tcatttttg 1929

<210> 11350  
<211> 166  
<212> PRT  
<213> Homo sapiens

<400> 11350  
Met Gln Arg Cys Ser Arg Ser Thr Glu Thr Glu Tyr Asp Asp Trp Thr  
1 5 10 15  
Ser Leu Phe Ser Phe Arg Phe Ile Asn Ala Arg Arg Arg Ile Val Gln  
20 25 30  
Pro Met Ile Asp Gln Ser Asn Arg Ala Val Ser Gln Gly Ala Ala Tyr  
35 40 45  
Ser Pro Glu Gly Gln Pro Met Gly Ser Phe Val Leu Asp Gly Gln Gln  
50 55 60  
His Met Gly Ile Arg Pro Ala Gly Leu Gln Ser Met Pro Gly Asp Tyr  
65 70 75 80  
Val Ser Gln Gly Gly Pro Met Gly Met Ser Met Ala Gln Pro Ser Tyr  
85 90 95  
Thr Pro Pro Gln Met Thr Pro His Pro Thr Gln Leu Arg His Gly Pro  
100 105 110  
Pro Met His Ser Tyr Leu Pro Ser His Pro His His Pro Ala Met Met  
115 120 125  
Met His Gly Gly Pro Pro Thr His Pro Gly Met Thr Met Ser Ala Gln  
130 135 140  
Ser Pro Thr Met Leu Asn Ser Val Asp Pro Asn Val Gly Gly Gln Val  
145 150 155 160  
Met Asp Ile His Ala Gln  
165

<210> 11351  
<211> 1627  
<212> DNA  
<213> Homo sapiens

<400> 11351  
gtgtcctgct cgctccatgt tgccgcctct cccggtacct gotgtgtgctc ccgggggcttc 60  
gggaaatgcg agagtctgag ccgggggagga ggaacccgag cagcggcggc ggccggccgc 120  
gcggcgggag ccccccaaga ggaggaccgg gatccatgtg totttcctgg tgactaggat 180  
gtcgtcggag gagaacaagt gcgtggagca gccgcagcca ccaccccccg aggagcctgg 240  
agccccggcc ccgagccccc cagccgcaga caaaagacct cggggccggc ctcgcaaggc 300  
gcttccccctt tccagagagc cagaaagaaa ctatttggag ttttcctggt cttactggat 360  
gtcactctcg tccttgccga cctaattttc actgacagca aactttatat tccttcggag 420

003220.69462960

tatcgttcta	tttctctago	tattgcotta	ttttttotca	tggatgttct	tcttcgagta	480
ttttagaag	gctcatccac	accgctcagc	acgaaggcct	tgttctcagg	ggcctgcttc	540
tcaatgaggc	ggatctgctt	gaggttggca	tggggcccaa	tgccaaccgg	gatcacgatg	600
accttcttct	tcttcaggcc	ctggacgtag	cggacaaagt	tccgggacat	ccgttggggc	660
tcctggctgg	ccatcaggag	cagggcgatg	cggaaaggctt	cagggcggtc	gatcttgctg	720
atgatttgga	acagtgtgta	tttcaaggcc	tcgctgggtg	aggccacctg	gctgcccgc	780
tacttcaccc	ggctggcaac	gcgcgcgagc	tctgacggtc	gcttccggtc	cttgagcccg	840
atgtaggcgt	gggagccgtc	gtggtactcc	accacagcca	cgcggaccca	cttctaggag	900
atgcgagcc	gctccatcat	gtccaccaca	aaggccttca	gcacttcaaa	ctcagcctcg	960
gacagcctgg	aggagccatc	cagcaggaag	atcagggtcca	gtagcctgct	gcagtagaaa	1020
tcgtgcaact	gcggttctga	gatgtcctcc	acatacagag	tggtggggct	caccggggca	1080
tctgtgggag	gcaccaccag	gcctcccggc	tcctggcagg	cttcacaggt	gagggtgaca	1140
ccatcacagt	ggctgcagaa	aagagcgaag	aaattaaaaat	ggttcagaaa	gaacctatgg	1200
acacttctga	gccctacagt	gtatgactac	ttccatattc	ccacagaatc	tcctctgttc	1260
cacctgaact	tgagatccca	tggaccattc	cacacccaag	tgagatgtca	ctgtttaaca	1320
tctgtcccca	aatagcatgc	ccccccactt	caaaacacac	acatagccga	cttcctttga	1380
ttctagaaac	caaagcttta	gccatccta	ggatatgaaa	aaatatactc	gttggttctag	1440
gccatccaca	cagccactca	aagctgattt	cttttcaacc	tacatcttta	gcaacatgaa	1500
tacttaatta	taatctaagc	cttcttacaa	gtgtctccaa	gaacaaatgt	tactaaaatg	1560
tagacgctaa	cctgtgcttg	tacatgttct	gttgaagata	aatgctttac	agtacatatt	1620
ctaacag						1627

<210> 11352  
 <211> 2002  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (214).. (1908)

<400> 11352	
aaaaaaaaaa	aaaaaataaa
gctgccaatg	agattgccac
gtcattaccc	agatcagcca
tcagtcaactg	ctcagcctaa
caaggctccc	aatccccaac
caggtcctaa	agctaccagt
gccagttccc	aagccttgat
gctgcaaata	aggccatagc
acagctacca	cccaaggcca
tccatccgaa	ccaagaaagc
gacactgagc	atatagaggc
tcagtagtgg	ctatcaggcc
aattctgtct	ctgagatctc
ctggcagcca	ccctgcgggt
cgggcaactg	aaagccagac
gactattact	aaggctgcac
caacaagccc	aaaataactt
ggctttacct	accactgagg
gaaagccaac	aagatgaaga
tggccatgag	ggtggcacta
catctcacag	aatattcacg
aacctctatc	aagcctaaga
tagtgccacc	gaggtctcgc
aattaccaat	gagacagcca
gtatccacac	cacagcagcc
ctccaaagcc	aggaagacaa
ttgctaagggt	cataaatact
tctaaatgtc	actgacgcag
ctaccaggca	gattgaggcc
caaaaaatcc	aagggcaaga
agggtgccag	cagggggcca
cttgccactc	agatagtcac
aaaccaagcc	
ggaaggctgc	cactaaggct
cccaggccaa	gatagcctct
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	720
	780
	840
	900

gctcagacca acgtaagtgc ccttgagact caggttgctg ctgctgtcca ggccctggca 960  
gatgactatc tggctcagtt gagcctggag cccacaacca ggacccgggg caaaagaaac 1020  
cgaaagtcca agcatctgaa tggggatgag agaagtggca gtaattacag gcggatcca 1080  
tggggccgga ggccctgcacc accgcgagat gtggccattt tacaagaaag ggctaataag 1140  
ttggtgaaat acctgttggg taaggaccag acaaagatcc ccatcaaacg ctgagacatg 1200  
ctgagggatg tcatccaaga atatgatgaa tatttcccag aaatcattga acgagcaagc 1260  
tgcaactctg agaagatggt tcgagtcaat ctgaaggaaa ttgataagca aagtagcttg 1320  
tatattctca tcagcactca ggaatcctct gcaggcatac tgggaacgac caaggacaca 1380  
cccaagctgg gtctcctcat ggtgattctg agtgtcattt ttatgaatgg caacaaggcc 1440  
agtgaggctg tcatctggga ggtgctgcgc aagttggggc tgcgccctgg ggtgaggcat 1500  
tcactctttg gggaagtgag gaagctcatc acagacgagt ttgtgaagca gaagtacctg 1560  
gagtacaaga gggtccttaa cagcagacca cctgaatatg agttcttctg gggcttgccg 1620  
tctaccacg agactagcaa gatgaaagtc ctcaagtttg catgcagggt gcagaagaaa 1680  
gacccaagg actgggctgt gcagtaccgc gaggcagtg agatggaagt ccaagctgca 1740  
gctgtggctg tggctgaggc tgaagccagg gctgagattt attccccatg ttacagata 1800  
ccgctaataa attgcagtag tccttcccat ggagccaaag tacatccttg gaatctttgt 1860  
ccacacagca gtcaaggcag ttatggccaa tcagctgagg gtgtcatgtg atggaaaaat 1920  
ctgtttgctg ttctgctttt attgtttgct ttctgtgtgc tgtcatattt tggtatcaga 1980  
gttacattaa atttgcacaaa tg 2002

<210> 11353  
<211> 565  
<212> PRT  
<213> Homo sapiens

<400> 11353  
Met Lys Arg Val Thr Ala Lys Ala Ala Gln Gly Ser Gln Ser Pro Thr  
1 5 10 15  
Gly His Glu Gly Gly Thr Ile Gln Leu Lys Ser Pro Leu Gln Val Leu  
20 25 30  
Lys Leu Pro Val Ile Ser Gln Asn Ile His Ala Pro Ile Ala Asn Glu  
35 40 45  
Ser Ala Ser Ser Gln Ala Leu Ile Thr Ser Ile Lys Pro Lys Lys Ala  
50 55 60  
Ser Lys Ala Lys Lys Ala Ala Asn Lys Ala Ile Ala Ser Ala Thr Glu  
65 70 75 80  
Val Ser Leu Ala Ala Thr Ala Thr His Thr Ala Thr Thr Gln Gly Gln  
85 90 95  
Ile Thr Asn Glu Thr Ala Ser Ile His Thr Thr Ala Ala Ser Ile Arg  
100 105 110  
Thr Lys Lys Ala Ser Lys Ala Arg Lys Thr Ile Ala Lys Val Ile Asn  
115 120 125  
Thr Asp Thr Glu His Ile Glu Ala Leu Asn Val Thr Asp Ala Ala Thr  
130 135 140  
Arg Gln Ile Glu Ala Ser Val Val Ala Ile Arg Pro Lys Lys Ser Lys  
145 150 155 160  
Gly Lys Lys Ala Ala Ser Arg Gly Pro Asn Ser Val Ser Glu Ile Ser

003270 69462960

				165				170				175			
Glu	Ala	Pro	Leu	Ala	Thr	Gln	Ile	Val	Thr	Asn	Gln	Ala	Leu	Ala	Ala
				180				185				190			
Thr	Leu	Arg	Val	Lys	Arg	Gly	Ser	Arg	Ala	Arg	Lys	Ala	Ala	Thr	Lys
				195				200				205			
Ala	Arg	Ala	Thr	Glu	Ser	Gln	Thr	Pro	Asn	Ala	Asp	Gln	Gly	Ala	Gln
				210				215				220			
Ala	Lys	Ile	Ala	Ser	Ala	Gln	Thr	Asn	Val	Ser	Ala	Leu	Glu	Thr	Gln
				225				230				235			
Val	Ala	Ala	Ala	Val	Gln	Ala	Leu	Ala	Asp	Asp	Tyr	Leu	Ala	Gln	Leu
				245				250				255			
Ser	Leu	Glu	Pro	Thr	Thr	Arg	Thr	Arg	Gly	Lys	Arg	Asn	Arg	Lys	Ser
				260				265				270			
Lys	His	Leu	Asn	Gly	Asp	Glu	Arg	Ser	Gly	Ser	Asn	Tyr	Arg	Arg	Ile
				275				280				285			
Pro	Trp	Gly	Arg	Arg	Pro	Ala	Pro	Pro	Arg	Asp	Val	Ala	Ile	Leu	Gln
				290				295				300			
Glu	Arg	Ala	Asn	Lys	Leu	Val	Lys	Tyr	Leu	Leu	Val	Lys	Asp	Gln	Thr
				310				315				320			
Lys	Ile	Pro	Ile	Lys	Arg	Ser	Asp	Met	Leu	Arg	Asp	Val	Ile	Gln	Glu
				325				330				335			
Tyr	Asp	Glu	Tyr	Phe	Pro	Glu	Ile	Ile	Glu	Arg	Ala	Ser	Cys	Thr	Leu
				340				345				350			
Glu	Lys	Met	Phe	Arg	Val	Asn	Leu	Lys	Glu	Ile	Asp	Lys	Gln	Ser	Ser
				355				360				365			
Leu	Tyr	Ile	Leu	Ile	Ser	Thr	Gln	Glu	Ser	Ser	Ala	Gly	Ile	Leu	Gly
				370				375				380			
Thr	Thr	Lys	Asp	Thr	Pro	Lys	Leu	Gly	Leu	Leu	Met	Val	Ile	Leu	Ser
				385				390				395			
Val	Ile	Phe	Met	Asn	Gly	Asn	Lys	Ala	Ser	Glu	Ala	Val	Ile	Trp	Glu
				405				410				415			
Val	Leu	Arg	Lys	Leu	Gly	Leu	Arg	Pro	Gly	Val	Arg	His	Ser	Leu	Phe
				420				425				430			
Gly	Glu	Val	Arg	Lys	Leu	Ile	Thr	Asp	Glu	Phe	Val	Lys	Gln	Lys	Tyr
				435				440				445			
Leu	Glu	Tyr	Lys	Arg	Val	Pro	Asn	Ser	Arg	Pro	Pro	Glu	Tyr	Glu	Phe
				450				455				460			
Phe	Trp	Gly	Leu	Arg	Ser	Tyr	His	Glu	Thr	Ser	Lys	Met	Lys	Val	Leu
				465				470				475			
Lys	Phe	Ala	Cys	Arg	Val	Gln	Lys	Lys	Asp	Pro	Lys	Asp	Trp	Ala	Val
				485				490				495			
Gln	Tyr	Arg	Glu	Ala	Val	Glu	Met	Glu	Val	Gln	Ala	Ala	Ala	Val	Ala
				500				505				510			
Val	Ala	Glu	Ala	Glu	Ala	Arg	Ala	Glu	Ile	Tyr	Ser	Pro	Cys	Leu	Gln
				515				520				525			
Ile	Pro	Leu	Ile	Asn	Cys	Ser	Ser	Pro	Ser	His	Gly	Ala	Lys	Val	His
				530				535				540			
Pro	Trp	Asn	Leu	Cys	Pro	His	Ser	Ser	Gln	Gly	Ser	Tyr	Gly	Gln	Ser

-4817/13211-

545                      550                      555                      560  
Ala Glu Gly Val Met  
565

<210> 11354  
<211> 1366  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (169).. (1323)

<400> 11354  
tagtaataacc agctgtaatc ccagctactt gggaggotga ggcagaagaa tcgcttgaac 60  
ccgggaggcg gaggttgagc aactacactg cgctgcatcg gactcgacgc ccgctgggtga 120  
cgcacacgct gcgccggaag tgtgaactgt ctgcctccag gctttgtcat ggccggctgct 180  
gctgcacgct ggaaccatgt gtgggtcggc accgagactg ggatcttgaa aggggtaaat 240  
cttcagcgaa aacaggcggc gaacctcacg gccggaggac agccgcggcg cgaggaggca 300  
gtgagcgccc tgtgttgggg caccggcggc gagaccaga tgctgggtggg ctgcgcggac 360  
aggacggtga agcacttcag caccgaggat ggcatattcc agggtcagag aactgcccc 420  
ggcggggagg gcatgttccg tggcctcgcc caggccgacg gcacctcat cacatgtgtg 480  
gattctggga ttctcagagt ctggcatgac aaggacaagg acacatcctc tgaccactc 540  
ctggaactga gagtgggccc tggggtgtgt aggatgcgcc aagaccagc acacccccat 600  
gtggttgcca cagggtggaa agagaatgct ttgaagatat gggacctgca gggctctgag 660  
gaacctgtgt tcagggccaa gaacgtgcgg aatgactggc tggacttgcg ggttcccatc 720  
tgggaccagg acatacagtt tctcccagga tcacagaagc ttgtcacctg cacagggtac 780  
caccagggtc gtgtttatga tccagcatcc cccagcgcc ggccagtcct agagaccacc 840  
tatggagagt actcactaac agccatgacc ctactccgg gaggcaactc agtgattgtg 900  
ggaaacactc atgggcagct ggcagaaatt gaccttcggc aaggcgctct actgggctgt 960  
ctgaaggggc tggcaggcag tgtgcgtggg ttgcagtgcc acccttcaaa gcctctacta 1020  
gcctcctgtg gcttgacag agtcttgagg atacacggga ccagaaatcc acggggtctg 1080  
gagcataagg tttatctcaa gtctcaattg aactgcctcc tcttgtcagg cagggacaac 1140  
tgggaggatg agccccaaga gcctcaagaa cccaacaagg tggccctaga agacacagag 1200  
acagatgaac tttgggcatc cttggaggca gctgccaagc ggaagctctc gggtttgag 1260  
cagccccaag gagctctcca aacgagacgg agaaagaaga agcggcctgg gtccaccagc 1320  
ccctgacgcc cctgtgccc ctttgtaaata aaactgctga acacc 1366

<210> 11355  
<211> 385  
<212> PRT  
<213> Homo sapiens

<400> 11355  
Met Ala Ala Ala Ala Ala Arg Trp Asn His Val Trp Val Gly Thr Glu  
1                      5                      10                      15

008240-69462960



Thr	Gly	Ile	Leu	Lys	Gly	Val	Asn	Leu	Gln	Arg	Lys	Gln	Ala	Ala	Asn
		20						25					30		
Leu	Thr	Ala	Gly	Gly	Gln	Pro	Arg	Arg	Glu	Glu	Ala	Val	Ser	Ala	Leu
		35					40					45			
Cys	Trp	Gly	Thr	Gly	Gly	Glu	Thr	Gln	Met	Leu	Val	Gly	Cys	Ala	Asp
	50					55					60				
Arg	Thr	Val	Lys	His	Phe	Ser	Thr	Glu	Asp	Gly	Ile	Phe	Gln	Gly	Gln
	65				70					75					80
Arg	His	Cys	Pro	Gly	Gly	Glu	Gly	Met	Phe	Arg	Gly	Leu	Ala	Gln	Ala
				85					90					95	
Asp	Gly	Thr	Leu	Ile	Thr	Cys	Val	Asp	Ser	Gly	Ile	Leu	Arg	Val	Trp
			100					105					110		
His	Asp	Lys	Asp	Lys	Asp	Thr	Ser	Ser	Asp	Pro	Leu	Leu	Glu	Leu	Arg
		115					120					125			
Val	Gly	Pro	Gly	Val	Cys	Arg	Met	Arg	Gln	Asp	Pro	Ala	His	Pro	His
	130					135					140				
Val	Val	Ala	Thr	Gly	Gly	Lys	Glu	Asn	Ala	Leu	Lys	Ile	Trp	Asp	Leu
	145				150					155					160
Gln	Gly	Ser	Glu	Glu	Pro	Val	Phe	Arg	Ala	Lys	Asn	Val	Arg	Asn	Asp
				165					170					175	
Trp	Leu	Asp	Leu	Arg	Val	Pro	Ile	Trp	Asp	Gln	Asp	Ile	Gln	Phe	Leu
		180						185					190		
Pro	Gly	Ser	Gln	Lys	Leu	Val	Thr	Cys	Thr	Gly	Tyr	His	Gln	Val	Arg
		195					200					205			
Val	Tyr	Asp	Pro	Ala	Ser	Pro	Gln	Arg	Arg	Pro	Val	Leu	Glu	Thr	Thr
	210					215					220				
Tyr	Gly	Glu	Tyr	Ser	Leu	Thr	Ala	Met	Thr	Leu	Thr	Pro	Gly	Gly	Asn
	225				230					235					240
Ser	Val	Ile	Val	Gly	Asn	Thr	His	Gly	Gln	Leu	Ala	Glu	Ile	Asp	Leu
				245					250					255	
Arg	Gln	Gly	Arg	Leu	Leu	Gly	Cys	Leu	Lys	Gly	Leu	Ala	Gly	Ser	Val
			260					265					270		
Arg	Gly	Leu	Gln	Cys	His	Pro	Ser	Lys	Pro	Leu	Leu	Ala	Ser	Cys	Gly
		275					280					285			
Leu	Asp	Arg	Val	Leu	Arg	Ile	His	Gly	Thr	Gln	Asn	Pro	Arg	Gly	Leu
	290					295					300				
Glu	His	Lys	Val	Tyr	Leu	Lys	Ser	Gln	Leu	Asn	Cys	Leu	Leu	Leu	Ser
	305				310					315					320
Gly	Arg	Asp	Asn	Trp	Glu	Asp	Glu	Pro	Gln	Glu	Pro	Gln	Glu	Pro	Asn
				325					330					335	
Lys	Val	Pro	Leu	Glu	Asp	Thr	Glu	Thr	Asp	Glu	Leu	Trp	Ala	Ser	Leu
			340					345					350		
Glu	Ala	Ala	Ala	Lys	Arg	Lys	Leu	Ser	Gly	Leu	Glu	Gln	Pro	Gln	Gly
		355					360					365			
Ala	Leu	Gln	Thr	Arg	Arg	Arg	Lys	Lys	Lys	Arg	Pro	Gly	Ser	Thr	Ser
	370					375					380				
Pro															
385															

09629469.072800

<210> 11356  
<211> 1597  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (14).. (1210)

<400> 11356  
cggcggcgct cccatggcgc acattacat taaccagtac ctgcagcagg tgtacgaagc 60  
catcgacagc agagatggag catcttgtgc agagttgggtg tcttttaaac atcctcatgt 120  
tgcaaaccca cgacttcaaa tggcctctcc agaggagaag tgtcaacaag tcttggaaacc 180  
cccttatgat gaaatgtttg cagctcattt aagggtgcact tatgcagtgg ggaatcatga 240  
cttcataagag gcatacaagt gccagaccgt gatagtccaa tcattcttgc gagcattcca 300  
ggcccacaaa gaagaaaact gggctctgcc tgtcatgtat gcagtagcgc ttgaccttcg 360  
agtgtttgcc aataatgcag atcaacagtt ggtaaagaaa ggaaaaagca aagttgggga 420  
catgttggaa aaagcagcag agttactgat gagctgtttc cgggtctgtg ccagcgacac 480  
ccgtgctggt atagaggact ctaagaagtg gggcatgctg tttctgggtga accagctgtt 540  
taaaatctac atcaagatca acaaactcca tttatgtaaa cccctaatta gagcaattga 600  
cagctcaaac ctgaaagacg attacagcac tgcacagaga gtaacataca aatactacgt 660  
tggaacgaag gctatgtttg acagcgattt taagcaagct gaggagtacc tgtcatttgc 720  
ctttgagcat tgtcacctgt ctagtcagaa gaacaaaagg atgattctga tctatttgc 780  
tccagtaaaa atgctatttg gtcacatgcc cactgtggag ctcttgaaaa agtatcacct 840  
gatgcagttt gcggaagtaa ccagagctgt gagcgagggc aacctgctgc tgctgcacga 900  
ggcgctggcg aagcacgagg ccttcttcat tcgctgcgga atcttctca tcttgagaa 960  
gctgaagatc atcacctaca ggaacctctt taagaaagtg tatttgttac tgaaaacaca 1020  
ccagctgtct ctggatgctt ttctggttgc cttgaagttc atgcaggtgg aggacgtgga 1080  
cattgacgaa gttcagtgtt ttctggctaa cttgatatac atgggacacg tcaaaggcta 1140  
catatcgcat cagcatcaga agctggttgt cagcaagcag aacctatttc ctcccctgtc 1200  
cacggtgtgt tgaaagtaca cggagccccg aggacggact cggctggttc tggagtcttt 1260  
gtgagacttc tttgaaggag gctttgcgtg aaggctgctc ggctcacttt tcctaagtgt 1320  
ggttcctgaa ggctgtcttt gtaacttttt gtagttcttt gtgtaaaaag cgtattctga 1380  
atttatacac atggcatgtt cttcattata tcttcagga tacatctatt tttatatatt 1440  
aaatttgaat gtgttatcaa aatgcttggg taacttaagg caccttttta aaagcagaat 1500  
ttaatttgat ttaaattttc cagattttat agcttgccgt tatggatgct cctcaattta 1560  
tgatgggggtt acatcccaat aaacttattt tatttgc 1597

<210> 11357  
<211> 399  
<212> PRT  
<213> Homo sapiens

<400> 11357  
Met Ala His Ile Thr Ile Asn Gln Tyr Leu Gln Gln Val Tyr Glu Ala

003270.69462960

-4820/13211-

1				5				10					15				
Ile	Asp	Ser	Arg	Asp	Gly	Ala	Ser	Cys	Ala	Glu	Leu	Val	Ser	Phe	Lys		
			20					25					30				
His	Pro	His	Val	Ala	Asn	Pro	Arg	Leu	Gln	Met	Ala	Ser	Pro	Glu	Glu		
		35					40					45					
Lys	Cys	Gln	Gln	Val	Leu	Glu	Pro	Pro	Tyr	Asp	Glu	Met	Phe	Ala	Ala		
	50					55					60						
His	Leu	Arg	Cys	Thr	Tyr	Ala	Val	Gly	Asn	His	Asp	Phe	Ile	Glu	Ala		
65					70				75						80		
Tyr	Lys	Cys	Gln	Thr	Val	Ile	Val	Gln	Ser	Phe	Leu	Arg	Ala	Phe	Gln		
			85					90					95				
Ala	His	Lys	Glu	Glu	Asn	Trp	Ala	Leu	Pro	Val	Met	Tyr	Ala	Val	Ala		
			100					105					110				
Leu	Asp	Leu	Arg	Val	Phe	Ala	Asn	Asn	Ala	Asp	Gln	Gln	Leu	Val	Lys		
	115						120					125					
Lys	Gly	Lys	Ser	Lys	Val	Gly	Asp	Met	Leu	Glu	Lys	Ala	Ala	Glu	Leu		
	130					135					140						
Leu	Met	Ser	Cys	Phe	Arg	Val	Cys	Ala	Ser	Asp	Thr	Arg	Ala	Gly	Ile		
145					150					155					160		
Glu	Asp	Ser	Lys	Lys	Trp	Gly	Met	Leu	Phe	Leu	Val	Asn	Gln	Leu	Phe		
			165					170					175				
Lys	Ile	Tyr	Ile	Lys	Ile	Asn	Lys	Leu	His	Leu	Cys	Lys	Pro	Leu	Ile		
			180				185						190				
Arg	Ala	Ile	Asp	Ser	Ser	Asn	Leu	Lys	Asp	Asp	Tyr	Ser	Thr	Ala	Gln		
	195					200						205					
Arg	Val	Thr	Tyr	Lys	Tyr	Tyr	Val	Gly	Arg	Lys	Ala	Met	Phe	Asp	Ser		
	210				215						220						
Asp	Phe	Lys	Gln	Ala	Glu	Glu	Tyr	Leu	Ser	Phe	Ala	Phe	Glu	His	Cys		
225					230					235					240		
His	Arg	Ser	Ser	Gln	Lys	Asn	Lys	Arg	Met	Ile	Leu	Ile	Tyr	Leu	Leu		
			245					250					255				
Pro	Val	Lys	Met	Leu	Leu	Gly	His	Met	Pro	Thr	Val	Glu	Leu	Leu	Lys		
			260					265					270				
Lys	Tyr	His	Leu	Met	Gln	Phe	Ala	Glu	Val	Thr	Arg	Ala	Val	Ser	Glu		
		275				280						285					
Gly	Asn	Leu	Leu	Leu	Leu	His	Glu	Ala	Leu	Ala	Lys	His	Glu	Ala	Phe		
	290					295					300						
Phe	Ile	Arg	Cys	Gly	Ile	Phe	Leu	Ile	Leu	Glu	Lys	Leu	Lys	Ile	Ile		
305					310					315					320		
Thr	Tyr	Arg	Asn	Leu	Phe	Lys	Lys	Val	Tyr	Leu	Leu	Leu	Lys	Thr	His		
			325					330					335				
Gln	Leu	Ser	Leu	Asp	Ala	Phe	Leu	Val	Ala	Leu	Lys	Phe	Met	Gln	Val		
			340					345					350				
Glu	Asp	Val	Asp	Ile	Asp	Glu	Val	Gln	Cys	Ile	Leu	Ala	Asn	Leu	Ile		
		355				360						365					
Tyr	Met	Gly	His	Val	Lys	Gly	Tyr	Ile	Ser	His	Gln	His	Gln	Lys	Leu		
	370					375					380						
Val	Val	Ser	Lys	Gln	Asn	Pro	Phe	Pro	Pro	Leu	Ser	Thr	Val	Cys			

09629469.072800

385

390

395

<210> 11358  
<211> 2481  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (181).. (2064)

<400> 11358  
agctgctgcc gccgcagttg cgaatgcagc atcggcgctt agctgcctcc gcggtgcagc 60  
taaggttcgt gtcgctaccc cttggccctt cgctcttgot gccttaaccc cgccggtgga 120  
gcccgcctctt ctggcctggt gagcccgctc cctcactgcc acacagcaag ttccgagacc 180  
atggattcgg gcagcagcag cagcgactcg gcgcccagatt gctgggacca ggtggacatg 240  
gaatccccgg ggttggcccc gagcggggat ggagtctcct ctgcggtggc cgaagcccag 300  
cgcgagcccc tcagctcggc tttcagccgt aagctcaacg tcaacgcaa gcccttcgtg 360  
cctaacgtac acgccgcgga gttcgtgcog tccttcctgc ggggcccagc tcagccgccc 420  
accctcccgg ccggctccgg cagcaacgat gaaacctgca ccggcgcggg ataccctcaa 480  
ggtaaaagga tgggacgggg ggcacctgtg gaaccttccc gagaggaacc gttagcgtcg 540  
cttgaagggt ccaattcagc cgttaccatg gaactttcag aacctgttgt agaaaatgga 600  
gaggttgaaa tggccctaga agaatcatgg gagcacagta aagaagtaag tgaagccgag 660  
cctgggggtg gttcctcggg agattcaggg ccccagaag aaagtggcca ggaaatgatg 720  
gaggaaaaag aggaaataag aaaatccaaa tctgtgatcg taccctcagg tgcacctaa 780  
aaagaacacg taaatgtagt attcattggc catgtagacg ctggcaagtc aaccatcgga 840  
ggacagataa tgtttttgac tggaatggtt gacaaaagaa cactggagaa atatgaaaga 900  
gaagctaagg aaaaaaacag agaaacctgg tatttgtcct gggccttaga taciaatcag 960  
gaggaaacgag acaagggtaa aacagtcgaa gtgggtcgtg cctattttga aacagaaagg 1020  
aaacatttca caattttaga tgcccctggc cacaagggtt ttgtcccaaa tatgattggt 1080  
ggtgcttctc aagctgattt ggctgtgctg gtcatctctg ccaggaaaagg agagtttgaa 1140  
actggatttg aaaaagggtg acagacaaga gaacatgcga tgttggcaaa aacggcaggg 1200  
gtaaaacatt taatagtgtt tattaataag atggatgato ccacagtaaa ttggagcatc 1260  
gagagatatg aagaatgtaa agaaaaactg gtgccctttt tgaaaaaagt aggtttcagt 1320  
ccaaaaaagg acattcactt tatgccctgc tcaggactga ccggagcaaa tattaagag 1380  
cagtcagatt tctgcccttg gtacactgga ttaccattta ttccgtattt ggataacttg 1440  
ccaaacttca acagatcaat tgatggacca ataagactgc caattgtgga taagtacaaa 1500  
gatatgggca ctgtggtcct gggaaagctg gaatccgggt ccatttttaa aggccagcag 1560  
ctcgtgatga tgccaaacaa gcacaatgta gaagttcttg gaatactttc tgatgatact 1620  
gaaactgatt ttgtagcccc aggtgaaaac ctcaaaatca gactgaaggg aattgaagaa 1680  
gaagagattc ttccaggatt catactttgt gatcctagta acctctgcca ttctggacgc 1740  
acgtttgatg ttcagatagt gattattgag cacaaatcca tcatctgccc aggttataat 1800  
gcggtgctgc acattcatac ttgtattgag gaagttgaga taacagcgtt aatctccttg 1860  
gtagacaaaa aatcaggaga aaaaagtaag acacgacccc gcttcgtgaa acaagatcaa 1920  
gtatgcattg ctcgtttaag gacagcagga accatctgcc tcgagacgtt caaagatttt 1980  
cctcagatgg gtcgttttac ttttaagagat gagggtaaga ccattgcaat tggaaaagtt 2040  
ctgaaattgg tcccagagaa ggactaagca attttcttga tgccctctgca agatactgtg 2100

09529459.072300

```

aggagaattg acagcaaaag ttcaccacot actottatttt actgcccatt gattgacttt 2160
tcttcatatt ttgcaaagag aaatttcaca gcaaaaatto atgttttgtc agcttttctca 2220
tgttgagatc tgttatgtca ctgatgaatt taccctcaag tticcttcct ctgtaccact 2280
ctgcttcctt ggacaatatc agtaatagct ttgtaagtga tgtggacgta attgcctaca 2340
gtaatgaaaa attaatgtac ttttaattttt cattttcctt taggatattt agaccaccct 2400
tgttccacgc aaaccagagt gtgtcagtgt ttgtgtgtgt gttaaaatga taactaacat 2460
gtgaataaaa tactccattt g 2481

```

<210> 11359  
 <211> 628  
 <212> PRT  
 <213> Homo sapiens

<400> 11359

```

Met Asp Ser Gly Ser Ser Ser Ser Asp Ser Ala Pro Asp Cys Trp Asp
 1          5          10          15
Gln Val Asp Met Glu Ser Pro Gly Leu Ala Pro Ser Gly Asp Gly Val
 20          25          30
Ser Ser Ala Val Ala Glu Ala Gln Arg Glu Pro Leu Ser Ser Ala Phe
 35          40          45
Ser Arg Lys Leu Asn Val Asn Ala Lys Pro Phe Val Pro Asn Val His
 50          55          60
Ala Ala Glu Phe Val Pro Ser Phe Leu Arg Gly Pro Thr Gln Pro Pro
 65          70          75          80
Thr Leu Pro Ala Gly Ser Gly Ser Asn Asp Glu Thr Cys Thr Gly Ala
 85          90          95
Gly Tyr Pro Gln Gly Lys Arg Met Gly Arg Gly Ala Pro Val Glu Pro
100          105          110
Ser Arg Glu Glu Pro Leu Ala Ser Leu Glu Gly Ser Asn Ser Ala Val
115          120          125
Thr Met Glu Leu Ser Glu Pro Val Val Glu Asn Gly Glu Val Glu Met
130          135          140
Ala Leu Glu Glu Ser Trp Glu His Ser Lys Glu Val Ser Glu Ala Glu
145          150          155          160
Pro Gly Gly Gly Ser Ser Gly Asp Ser Gly Pro Pro Glu Glu Ser Gly
165          170          175
Gln Glu Met Met Glu Glu Lys Glu Glu Ile Arg Lys Ser Lys Ser Val
180          185          190
Ile Val Pro Ser Gly Ala Pro Lys Lys Glu His Val Asn Val Val Phe
195          200          205
Ile Gly His Val Asp Ala Gly Lys Ser Thr Ile Gly Gly Gln Ile Met
210          215          220
Phe Leu Thr Gly Met Val Asp Lys Arg Thr Leu Glu Lys Tyr Glu Arg
225          230          235          240
Glu Ala Lys Glu Lys Asn Arg Glu Thr Trp Tyr Leu Ser Trp Ala Leu
245          250          255
Asp Thr Asn Gln Glu Glu Arg Asp Lys Gly Lys Thr Val Glu Val Gly

```

003220.69462960



<210> 11360  
 <211> 2239  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (31).. (1647)

<400> 11360  
 tagcgaggga cgcgtaggtg tcttcataag atgccggggc agcggcgcgc gctttccccc 60  
 aagatggcgt ccatgcggga gagcgacacg ggcctgtggc tgcacaacaa gctggggggc 120  
 acggacgagc tgtgggcgcc gccagcatc gcgtccctgc tcacggccgc ggtcatcgac 180  
 aacatccgtc tctgcttcca tggcctctcg tcggcagtga agotcaagtt gctactcggg 240  
 acgctgcacc tcccgcgccg cacgggtggac gagatgaggg gcgccctaatt ggagatcatc 300  
 cagctcgcca gcctcgactc ggacccctgg gtgctcatgg tcgccgacat cttgaagtcc 360  
 tttccggaca caggctcgct taacctggag ctggaggagc agaattccaa cgttcaggat 420  
 attttgggag aacttagaga aaaggtgggt gagtgtgaag cgtctgccat gctgccactg 480  
 gagtgccagt acttgaacaa aaacgccctg acgaccctcg cgggacccct cactcccccg 540  
 gtgaagcatt ttcagttaaa gcggaaaccc aagagcgcca cgtgcggggc ggagctgctg 600  
 cagaagtcca cggagaccgc ccagcagttg aagcggagcg ccggggtgcc cttccacgcc 660  
 aagggccggg ggctgctgcg gaagatggac accaccaccc cactcaaagg catcccgaag 720  
 caggcgccct tcagaagccc cacggcgccc agcgtcttca gcccacagg gaaccggacc 780  
 cccatcccg cttccaggac gctgctgctg aaggaaocgag gtgtgaagct gctggacatc 840  
 tctgagctgg atatggttgg cgctggccga gaggcgaagc ggagaaggaa gactctcgat 900  
 gcggaggtgg tggagaagcc ggccaaggag gaaacggtgg tggagaacgc caccocggac 960  
 tacgcagccg gcctggtgtc cacgcagaaa cttgggtccc tgaacgatga gcctgcgctg 1020  
 cccccaacga gctaccttcc ctccacgccc agcgtggttc ccgcctctc ctacatcccc 1080  
 agctccgaga caccocccagc cccatcttcc cgggaagcca gccgcccacc agaggagccc 1140  
 agcgcoccca gccccacgtt gccagcgagc ttcaagcagc gggcgcccat gtacaacagc 1200  
 ggccctgagc ctgccacacc cacgcctgag gcgccaccc cgcctctgac acccaccaca 1260  
 cctccggctg tcgcccttac cactcagaca ccccggttg ccatggtggc ccgcagacc 1320  
 caggccctg ctacgagca gcctaagaag aacctgtccc tcacgagaga gcagatgttc 1380  
 gctgccagc agatgttcaa gacggccaac aaagtcacgc ggcccgagaa ggccctcatc 1440  
 ctgggcttca tggccggctc ccgagagaac ccgtgccagg agcaggggga cgtgatccag 1500  
 atcaagctga gcgagcacac ggaggacctg cccaaggcgg acggccaggg tagcacaacc 1560  
 atgctggtgg acacagtgtt tgagatgaac tatgccacgg gccagtggac gcgcttcaag 1620  
 aagtacaagc ccatgaccac tgtgtcctag aaccacctgc ctacagctg gccgtcactt 1680  
 gtgggggtcc acgggacgat ggctttgcca gcttaaagta accggatggc ggacacctgg 1740  
 ccccgagggt ccccgcccg ccgccctgct gctgaccag cctgttttaa gttctggatg 1800  
 catttctctg gggatatttg ggcttatttt taaaatttta atatgggttc ttttttgtgt 1860  
 gatttaagac actttttgga ctcaacgtta catttttgaa thtagtaagt aaattaacca 1920  
 aaaaagttaac aacttcctaa ttttagtgac agctctgcct gttagactct tactttttaa 1980  
 aatcttttct attttccctc gctggggcag tgccctccta ccccgagggt tgaggggacc 2040  
 aaggtggcac ggtggtactg ggggtgcggc agggacaccc gaccacacca gagcgtggga 2100  
 gacggtgggc attgtccct gcctgtgcct gcctgggagt tttgtattca tcttttgtat 2160  
 agttgtggac atttaagaca gtctttgggt acctattttc attgtaaaac tatctgaacc 2220

attaaagtcg agcttttct

2239

<210> 11361

<211> 539

<212> PRT

<213> Homo sapiens

<400> 11361

Met	Pro	Gly	Gln	Arg	Arg	Ala	Leu	Ser	Pro	Lys	Met	Ala	Ser	Met	Arg
1				5					10					15	
Glu	Ser	Asp	Thr	Gly	Leu	Trp	Leu	His	Asn	Lys	Leu	Gly	Ala	Thr	Asp
			20					25					30		
Glu	Leu	Trp	Ala	Pro	Pro	Ser	Ile	Ala	Ser	Leu	Leu	Thr	Ala	Ala	Val
		35					40					45			
Ile	Asp	Asn	Ile	Arg	Leu	Cys	Phe	His	Gly	Leu	Ser	Ser	Ala	Val	Lys
	50					55					60				
Leu	Lys	Leu	Leu	Leu	Gly	Thr	Leu	His	Leu	Pro	Arg	Arg	Thr	Val	Asp
65					70					75					80
Glu	Met	Arg	Gly	Ala	Leu	Met	Glu	Ile	Ile	Gln	Leu	Ala	Ser	Leu	Asp
				85					90					95	
Ser	Asp	Pro	Trp	Val	Leu	Met	Val	Ala	Asp	Ile	Leu	Lys	Ser	Phe	Pro
		100						105					110		
Asp	Thr	Gly	Ser	Leu	Asn	Leu	Glu	Leu	Glu	Gln	Asn	Pro	Asn	Val	
	115					120					125				
Gln	Asp	Ile	Leu	Gly	Glu	Leu	Arg	Glu	Lys	Val	Gly	Glu	Cys	Glu	Ala
	130					135					140				
Ser	Ala	Met	Leu	Pro	Leu	Glu	Cys	Gln	Tyr	Leu	Asn	Lys	Asn	Ala	Leu
145					150					155					160
Thr	Thr	Leu	Ala	Gly	Pro	Leu	Thr	Pro	Pro	Val	Lys	His	Phe	Gln	Leu
				165				170						175	
Lys	Arg	Lys	Pro	Lys	Ser	Ala	Thr	Leu	Arg	Ala	Glu	Leu	Leu	Gln	Lys
		180						185					190		
Ser	Thr	Glu	Thr	Ala	Gln	Gln	Leu	Lys	Arg	Ser	Ala	Gly	Val	Pro	Phe
	195						200					205			
His	Ala	Lys	Gly	Arg	Gly	Leu	Leu	Arg	Lys	Met	Asp	Thr	Thr	Thr	Pro
	210					215					220				
Leu	Lys	Gly	Ile	Pro	Lys	Gln	Ala	Pro	Phe	Arg	Ser	Pro	Thr	Ala	Pro
225					230					235					240
Ser	Val	Phe	Ser	Pro	Thr	Gly	Asn	Arg	Thr	Pro	Ile	Pro	Pro	Ser	Arg
				245					250					255	
Thr	Leu	Leu	Arg	Lys	Glu	Arg	Gly	Val	Lys	Leu	Leu	Asp	Ile	Ser	Glu
			260					265					270		
Leu	Asp	Met	Val	Gly	Ala	Gly	Arg	Glu	Ala	Lys	Arg	Arg	Arg	Lys	Thr
	275						280					285			
Leu	Asp	Ala	Glu	Val	Val	Glu	Lys	Pro	Ala	Lys	Glu	Glu	Thr	Val	Val
	290					295					300				
Glu	Asn	Ala	Thr	Pro	Asp	Tyr	Ala	Ala	Gly	Leu	Val	Ser	Thr	Gln	Lys

003270-69462960



305 310 315 320  
 Leu Gly Ser Leu Asn Asp Glu Pro Ala Leu Pro Ser Thr Ser Tyr Leu  
 325 330 335  
 Pro Ser Thr Pro Ser Val Val Pro Ala Ser Ser Tyr Ile Pro Ser Ser  
 340 345 350  
 Glu Thr Pro Pro Ala Pro Ser Ser Arg Glu Ala Ser Arg Pro Pro Glu  
 355 360 365  
 Glu Pro Ser Ala Pro Ser Pro Thr Leu Pro Ala Gln Phe Lys Gln Arg  
 370 375 380  
 Ala Pro Met Tyr Asn Ser Gly Leu Ser Pro Ala Thr Pro Thr Pro Ala  
 385 390 395 400  
 Ala Pro Thr Ser Pro Leu Thr Pro Thr Thr Pro Pro Ala Val Ala Pro  
 405 410 415  
 Thr Thr Gln Thr Pro Pro Val Ala Met Val Ala Pro Gln Thr Gln Ala  
 420 425 430  
 Pro Ala Gln Gln Gln Pro Lys Lys Asn Leu Ser Leu Thr Arg Glu Gln  
 435 440 445  
 Met Phe Ala Ala Gln Glu Met Phe Lys Thr Ala Asn Lys Val Thr Arg  
 450 455 460  
 Pro Glu Lys Ala Leu Ile Leu Gly Phe Met Ala Gly Ser Arg Glu Asn  
 465 470 475 480  
 Pro Cys Gln Glu Gln Gly Asp Val Ile Gln Ile Lys Leu Ser Glu His  
 485 490 495  
 Thr Glu Asp Leu Pro Lys Ala Asp Gly Gln Gly Ser Thr Thr Met Leu  
 500 505 510  
 Val Asp Thr Val Phe Glu Met Asn Tyr Ala Thr Gly Gln Trp Thr Arg  
 515 520 525  
 Phe Lys Lys Tyr Lys Pro Met Thr Asn Val Ser  
 530 535

<210> 11362  
 <211> 1687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (121).. (879)

<400> 11362  
 gctgcgggga ggcgcgcgca ggccgtgcag ttccatagcga ggaggcgccg ccgccattgc 60  
 cgctctctcg gtgagcgcag ccccgctctc cgggcccgggc cttcgcgggc caccggcgcc 120  
 atgggccagt gcggcatcac ctctccaag accgtgctgg tctttctcaa cctcatcttc 180  
 tggggggcag ctggcatttt atgctatgtg ggagcctatg tcttcatcac ttatgatgac 240  
 tatgaccact tctttgaaga tgtgtacacg ctcatccctg ctgtagtgat catagctgta 300  
 ggagccctgc ttttcatcat tgggctaatt ggctgctgtg ccacaatccg ggaaagtcgc 360  
 tgtggacttg ccacgtttgt catcatcctg ctcttggttt ttgtcacaga agttgttgta 420

000220.69462950

```

gtggttttgg gatatgttta cagagcaaag gtggaaaatg aggttgatcg cagcattcag 480
aaagtgtata agacctacaa tggaaccaac cctgatgctg ctagccgggc tattgattat 540
gtacagagac agctgcattg ttgtggaatt cacaactact cagactggga aaatacagat 600
tggttcaaag aaaccaaaaa ccagagtgtc cctcttagct gctgcagaga gactgccagc 660
aattgtaatg gcagcctggc ccacccttcc gacctctatg ctgaggggtg tgaggctcta 720
gttgtgaaga agctacaaga aatcatgatg catgtgatct gggccgcact ggcatttgca 780
gctattcagc tgctgggcat gctgtgtgct tgcctcgtgt tgtgcggaag gagtagagat 840
cctgcttacg agctcctcat cactggcgga acctatgcat agttgacaac tcaagcctga 900
gcttttttgt cttgttctga ttiggaaggt gaattgagca ggtctgctgc tgttggcctc 960
tgagagttcat ttagttaaag cacatgtaca ctgggtgttg acagagcagc ttggcctttc 1020
atgtgcccac ctacttacct actacctgcg actttctttt tcttgttct agctgactct 1080
tcatgcccct aagattttta gtacgatggt gaacgttcta atttcagaac caattgcgag 1140
tcatgtagtg tggtagaatt aaaggaggac acgagcctgc ttctgttacc tccaagtggg 1200
aacaggactg atgccgaaat gtcaccaggt cctttcagtc ttcacagtgg agaactcttg 1260
gccaaagggt tttgggggga ggaggaggaa accagcttcc tggttaaggt taacaccaga 1320
tggtgcccct cattggtgtc cttttaaaaa atatttactg tagtccaata agatagcagc 1380
tgtacaaaat gactaaaata gattgtagga tcatatggcg tataatcttg ttcatcttca 1440
aaatcagaga ctgagcttg aaactagtgg tttttaatca aagttggott tataggagga 1500
gtataatgta tgcactactg ttttaaaaga attagtgtga gtgtgtttt gtatgaatga 1560
gcccattcat ggtaagctt aagcttgttg gaaataatgt acccatgtag actagcaaaa 1620
tagtatgtag atgtgatctc agttgtaaat agaaaaatct aattcaataa actctgtatc 1680
agccccc

```

<210> 11363  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 11363

Met	Gly	Gln	Cys	Gly	Ile	Thr	Ser	Ser	Lys	Thr	Val	Leu	Val	Phe	Leu
1				5					10					15	
Asn	Leu	Ile	Phe	Trp	Gly	Ala	Ala	Gly	Ile	Leu	Cys	Tyr	Val	Gly	Ala
			20					25					30		
Tyr	Val	Phe	Ile	Thr	Tyr	Asp	Asp	Tyr	Asp	His	Phe	Phe	Glu	Asp	Val
		35				40					45				
Tyr	Thr	Leu	Ile	Pro	Ala	Val	Val	Ile	Ile	Ala	Val	Gly	Ala	Leu	Leu
	50				55					60					
Phe	Ile	Ile	Gly	Leu	Ile	Gly	Cys	Cys	Ala	Thr	Ile	Arg	Glu	Ser	Arg
65				70					75					80	
Cys	Gly	Leu	Ala	Thr	Phe	Val	Ile	Ile	Leu	Leu	Leu	Val	Phe	Val	Thr
				85					90				95		
Glu	Val	Val	Val	Val	Val	Leu	Gly	Tyr	Val	Tyr	Arg	Ala	Lys	Val	Glu
		100				105					110				
Asn	Glu	Val	Asp	Arg	Ser	Ile	Gln	Lys	Val	Tyr	Lys	Thr	Tyr	Asn	Gly
	115					120					125				
Thr	Asn	Pro	Asp	Ala	Ala	Ser	Arg	Ala	Ile	Asp	Tyr	Val	Gln	Arg	Gln
	130					135					140				

003220.69462960

Leu His Cys Cys Gly Ile His Asn Tyr Ser Asp Trp Glu Asn Thr Asp  
 145 150 155 160  
 Trp Phe Lys Glu Thr Lys Asn Gln Ser Val Pro Leu Ser Cys Cys Arg  
 165 170 175  
 Glu Thr Ala Ser Asn Cys Asn Gly Ser Leu Ala His Pro Ser Asp Leu  
 180 185 190  
 Tyr Ala Glu Gly Cys Glu Ala Leu Val Val Lys Lys Leu Gln Glu Ile  
 195 200 205  
 Met Met His Val Ile Trp Ala Ala Leu Ala Phe Ala Ala Ile Gln Leu  
 210 215 220  
 Leu Gly Met Leu Cys Ala Cys Ile Val Leu Cys Gly Arg Ser Arg Asp  
 225 230 235 240  
 Pro Ala Tyr Glu Leu Leu Ile Thr Gly Gly Thr Tyr Ala  
 245 250

<210> 11364  
 <211> 1653  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (142).. (1533)

<400> 11364  
 acgtccgggg aggggccagg tgagcggcag acccggcacg caggtggggg ccggcgggggt 60  
 ccgtggccag agctgcagag agacaaggcg gcggcggctg ctgtgctggg tgcagtgagg 120  
 aagaggccct cgggtggtgcc catggctggc caggatcctg cgctgagcac gagtaccccg 180  
 ttctacgacg tggccagaca tggcattctg caggtggcag gggatgaccg ctttgggaaga 240  
 cgtgttgtca cgttcagctg ctgccggatg ccgccctccc acgagctgga ccaccagcgg 300  
 ctgctggagt atttgaagta cacactggac caatacgttg agaacgatta taccatcgtc 360  
 tatttccact acgggctgaa cagccgggaac aagccttccc tgggctggct ccagagcgcga 420  
 tacaaggagt tcgataggaa agacggggat ctactatgt ggcccaggct ggtctcgaac 480  
 tccaagctca agcgatcctc ccacctcagc ctcccaaagt actgggatta caggtacaag 540  
 aagaacttga aggccctcta cgtggtgcac cccaccagct tcatcaaggc cctgtggaac 600  
 atcttgaagc ccctcatcag tcacaagttt gggaagaaag tcatctatit caactacctg 660  
 agtgagctcc acgaacacct taaatacgac cagctggtca tccctcccga agttttgcgg 720  
 tacgatgaga agctccagag cctgcacgag ggccggacgc cgcctcctac caagacacca 780  
 ccgccgcggc ccccgctgcc cacacagcag tttggcgtca gtctgcaata cctcaaagac 840  
 aaaaaatcaag gcgaactcat cccccctgtg ctgaggttca cagtgcgta cctgagagag 900  
 aaaggcctgc gcaccgaggg cctgttccgg agatccgcca gcgtgcagac cgtccgcgag 960  
 atccagaggc tctacaacca agggaagccc gtgaactttg acgactacgg ggacattcac 1020  
 atccctgccg tgatcctgaa gaccttctg cgagagctgc cccagccgct tctgaccttc 1080  
 caggcctacg agcagattct cgggatcacc tgtgtggaga gcagcctgcg tgtcactggc 1140  
 tgccgccaga tcttacggag cctcccagag cacaactacg tcgtcctccg ctacctcatg 1200  
 ggctttctgc atgcggtgtc ccgggagagc atcttcaaca aaatgaacag ctctaacctg 1260  
 gcctgtgtct tcgggctgaa tttgatctgg ccatcccagg ggggtctcctc cctgagtgcc 1320

008220-69462960

```

cttgtgcccc tgaacatgtt cactgaactg ctgatcgagt actatgaaaa gatcttcagc 1380
accccgaggg cacctgggga gcacggcctg gcaccatggg aacaggggag cagggcagcc 1440
cctttgcagg aggctgtgcc acggacacaa gccacgggcc tcaccaagcc taccctacct 1500
ccgagtcgcc tgatggcagc cagaagacgt ctctagtgtt gcgaacactc tgtatgtttc 1560
gagctacctc ccacacctgt ctgtgcactt gtatgttttg taaacttggc atctgtaaaa 1620
ataaccagcc attagatgaa ttcagaacct tct                                     1653

```

<210> 11365  
 <211> 464  
 <212> PRT  
 <213> Homo sapiens

<400> 11365

Met	Ala	Gly	Gln	Asp	Pro	Ala	Leu	Ser	Thr	Ser	His	Pro	Phe	Tyr	Asp
1				5					10					15	
Val	Ala	Arg	His	Gly	Ile	Leu	Gln	Val	Ala	Gly	Asp	Asp	Arg	Phe	Gly
			20					25					30		
Arg	Arg	Val	Val	Thr	Phe	Ser	Cys	Cys	Arg	Met	Pro	Pro	Ser	His	Glu
		35					40					45			
Leu	Asp	His	Gln	Arg	Leu	Leu	Glu	Tyr	Leu	Lys	Tyr	Thr	Leu	Asp	Gln
	50					55					60				
Tyr	Val	Glu	Asn	Asp	Tyr	Thr	Ile	Val	Tyr	Phe	His	Tyr	Gly	Leu	Asn
65					70					75					80
Ser	Arg	Asn	Lys	Pro	Ser	Leu	Gly	Trp	Leu	Gln	Ser	Ala	Tyr	Lys	Glu
			85					90						95	
Phe	Asp	Arg	Lys	Asp	Gly	Asp	Leu	Thr	Met	Trp	Pro	Arg	Leu	Val	Ser
			100				105						110		
Asn	Ser	Lys	Leu	Lys	Arg	Ser	Ser	His	Leu	Ser	Leu	Pro	Lys	Tyr	Trp
		115				120						125			
Asp	Tyr	Arg	Tyr	Lys	Lys	Asn	Leu	Lys	Ala	Leu	Tyr	Val	Val	His	Pro
	130					135					140				
Thr	Ser	Phe	Ile	Lys	Val	Leu	Trp	Asn	Ile	Leu	Lys	Pro	Leu	Ile	Ser
145					150					155					160
His	Lys	Phe	Gly	Lys	Lys	Val	Ile	Tyr	Phe	Asn	Tyr	Leu	Ser	Glu	Leu
				165					170					175	
His	Glu	His	Leu	Lys	Tyr	Asp	Gln	Leu	Val	Ile	Pro	Pro	Glu	Val	Leu
			180					185					190		
Arg	Tyr	Asp	Glu	Lys	Leu	Gln	Ser	Leu	His	Glu	Gly	Arg	Thr	Pro	Pro
		195					200					205			
Pro	Thr	Lys	Thr	Pro	Pro	Pro	Arg	Pro	Pro	Leu	Pro	Thr	Gln	Gln	Phe
	210					215						220			
Gly	Val	Ser	Leu	Gln	Tyr	Leu	Lys	Asp	Lys	Asn	Gln	Gly	Glu	Leu	Ile
225					230					235					240
Pro	Pro	Val	Leu	Arg	Phe	Thr	Val	Thr	Tyr	Leu	Arg	Glu	Lys	Gly	Leu
				245					250					255	
Arg	Thr	Glu	Gly	Leu	Phe	Arg	Arg	Ser	Ala	Ser	Val	Gln	Thr	Val	Arg
			260					265					270		

09629469.072300

Glu Ile Gln Arg Leu Tyr Asn Gln Gly Lys Pro Val Asn Phe Asp Asp  
 275 280 285  
 Tyr Gly Asp Ile His Ile Pro Ala Val Ile Leu Lys Thr Phe Leu Arg  
 290 295 300  
 Glu Leu Pro Gln Pro Leu Leu Thr Phe Gln Ala Tyr Glu Gln Ile Leu  
 305 310 315 320  
 Gly Ile Thr Cys Val Glu Ser Ser Leu Arg Val Thr Gly Cys Arg Gln  
 325 330 335  
 Ile Leu Arg Ser Leu Pro Glu His Asn Tyr Val Val Leu Arg Tyr Leu  
 340 345 350  
 Met Gly Phe Leu His Ala Val Ser Arg Glu Ser Ile Phe Asn Lys Met  
 355 360 365  
 Asn Ser Ser Asn Leu Ala Cys Val Phe Gly Leu Asn Leu Ile Trp Pro  
 370 375 380  
 Ser Gln Gly Val Ser Ser Leu Ser Ala Leu Val Pro Leu Asn Met Phe  
 385 390 395 400  
 Thr Glu Leu Leu Ile Glu Tyr Tyr Glu Lys Ile Phe Ser Thr Pro Glu  
 405 410 415  
 Ala Pro Gly Glu His Gly Leu Ala Pro Trp Glu Gln Gly Ser Arg Ala  
 420 425 430  
 Ala Pro Leu Gln Glu Ala Val Pro Arg Thr Gln Ala Thr Gly Leu Thr  
 435 440 445  
 Lys Pro Thr Leu Pro Pro Ser Pro Leu Met Ala Ala Arg Arg Arg Leu  
 450 455 460

<210> 11366  
 <211> 1770  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (35).. (1633)

<400> 11366  
 aaaaaaaagc ccgagtgcag cgcgcgggcg caggatggga tccggctcct ccagctaccg 60  
 gccaaggcc atctacctgg acatcgatgg acgcattcag aaggtaatct tcagcaagta 120  
 ctgcaactcc agcgacatca tggacctgtt ctgcatcgcc accggcctgc ctcggaacac 180  
 gaccatctcc ctgctgacca ccgacgacgc catggtctcc atcgaccca ccatgccgcg 240  
 gaattcagaa cgcactccgt acaaagttag acctgtggcc atcaagcaac tctccgagag 300  
 agaagaatta atccagagcg tgctggcgca ggttgcagag cagttctcaa gagcattcaa 360  
 aatcaatgaa ctgaaagctg aagttgcaaa tcaattggct gtcttagaga aacgcgtgga 420  
 attggaagga ctaaaagtgg tggagattga gaaatgcaag agtgacatta agaagatgag 480  
 ggaggagctg gcggccggaa gcagcaggac caactgcccc tgtaagtaca gttttttgga 540  
 taaccacaag aagttgactc ctcgacgoga tgttcccact taccccaagt acctgctctc 600  
 tccagagacc atcgaggccc tgcggaagcc gacctttgac gtctggcttt gggagcccaa 660  
 tgagatgctg agctgcctgg agcacatgta ccacgacctc gggctgggtca gggacttcag 720

```

catcaaccct gtcaccctca ggaggtggct gttctgtgtc cacgacaact acagaaacaa 780
ccccctccac aacttccggc actgcttctg cgtggccag atgatgtaca gcatggtctg 840
gctctgcagt ctccaggaga agttctcaca aacggatata ctgataccta tgacagcggc 900
catctgccac gatctggacc atcccggcta caacaacacg taccagatca atgcccgcac 960
agagctggcg gtccgctaca atgacatctc accgctggag aaccaccact gcgccgtggc 1020
cttcagatc ctgccgagc ctgagtgcac catcttctcc aacatcccac ctgatgggtt 1080
caagcagatc cgacaggga tgatcacatt aatcttggcc actgacatgg caagacatgc 1140
agaaattatg gattctttca aagagaaaat ggagaatttt gactacagca acgaggagca 1200
catgaccctg ctgaagatga ttttgataaa atgctgtgat atctctaacg aggtccgtcc 1260
aatggaagtc gcagagcctt gggtggactg tttattagag gaatatatta tgcagagcga 1320
ccgtgagaag tcagaaggcc ttctgtggc accgttcatt gaccgagaca aagtgaccaa 1380
ggccacagcc cagattgggt tcatcaagtt tgtctgata ccaatgtttg aaacagtgc 1440
caagctcttc cccatggttg aggagatcat gctgcagcca ctttgggaat cccgagatcg 1500
ctacgaggag ctgaagcgga tagatgacgc catgaaagag ttacagaaga agactgacag 1560
cttgacgtct ggggccacca agaagtccag agagagaagc agagatgtga aaaacagtga 1620
aggagactgt gcctgaggaa agcggggggc gtggctgcag ttctggacgg gctggccgag 1680
ctgcgcggga tccttgtgca gggaagagct gccctgggca cctggcacca caagaccatg 1740
ttttctaaga accattttgt tcactgatac

```

<210> 11367  
 <211> 533  
 <212> PRT  
 <213> Homo sapiens

<400> 11367

Met	Gly	Ser	Gly	Ser	Ser	Tyr	Arg	Pro	Lys	Ala	Ile	Tyr	Leu	Asp
1				5				10					15	
Ile	Asp	Gly	Arg	Ile	Gln	Lys	Val	Ile	Phe	Ser	Lys	Tyr	Cys	Asn
			20					25					30	Ser
Ser	Asp	Ile	Met	Asp	Leu	Phe	Cys	Ile	Ala	Thr	Gly	Leu	Pro	Arg
			35				40					45		Asn
Thr	Thr	Ile	Ser	Leu	Leu	Thr	Thr	Asp	Asp	Ala	Met	Val	Ser	Ile
			50			55					60			Asp
Pro	Thr	Met	Pro	Ala	Asn	Ser	Glu	Arg	Thr	Pro	Tyr	Lys	Val	Arg
					70					75				80
Val	Ala	Ile	Lys	Gln	Leu	Ser	Glu	Arg	Glu	Glu	Leu	Ile	Gln	Ser
				85					90				95	Val
Leu	Ala	Gln	Val	Ala	Glu	Gln	Phe	Ser	Arg	Ala	Phe	Lys	Ile	Asn
			100					105				110		Glu
Leu	Lys	Ala	Glu	Val	Ala	Asn	His	Leu	Ala	Val	Leu	Glu	Lys	Arg
			115			120						125		Val
Glu	Leu	Glu	Gly	Leu	Lys	Val	Val	Glu	Ile	Glu	Lys	Cys	Lys	Ser
			130			135				140				Asp
Ile	Lys	Lys	Met	Arg	Glu	Glu	Leu	Ala	Ala	Gly	Ser	Ser	Arg	Thr
				150						155				160
Cys	Pro	Cys	Lys	Tyr	Ser	Phe	Leu	Asp	Asn	His	Lys	Lys	Leu	Thr
				165					170					175

000220.69462960

Arg	Arg	Asp	Val	Pro	Thr	Tyr	Pro	Lys	Tyr	Leu	Leu	Ser	Pro	Glu	Thr
			180					185					190		
Ile	Glu	Ala	Leu	Arg	Lys	Pro	Thr	Phe	Asp	Val	Trp	Leu	Trp	Glu	Pro
		195					200					205			
Asn	Glu	Met	Leu	Ser	Cys	Leu	Glu	His	Met	Tyr	His	Asp	Leu	Gly	Leu
		210				215					220				
Val	Arg	Asp	Phe	Ser	Ile	Asn	Pro	Val	Thr	Leu	Arg	Arg	Trp	Leu	Phe
225					230					235					240
Cys	Val	His	Asp	Asn	Tyr	Arg	Asn	Asn	Pro	Phe	His	Asn	Phe	Arg	His
				245					250					255	
Cys	Phe	Cys	Val	Ala	Gln	Met	Met	Tyr	Ser	Met	Val	Trp	Leu	Cys	Ser
			260					265					270		
Leu	Gln	Glu	Lys	Phe	Ser	Gln	Thr	Asp	Ile	Leu	Ile	Leu	Met	Thr	Ala
		275					280					285			
Ala	Ile	Cys	His	Asp	Leu	Asp	His	Pro	Gly	Tyr	Asn	Asn	Thr	Tyr	Gln
		290				295					300				
Ile	Asn	Ala	Arg	Thr	Glu	Leu	Ala	Val	Arg	Tyr	Asn	Asp	Ile	Ser	Pro
305					310					315					320
Leu	Glu	Asn	His	His	Cys	Ala	Val	Ala	Phe	Gln	Ile	Leu	Ala	Glu	Pro
				325					330					335	
Glu	Cys	Asn	Ile	Phe	Ser	Asn	Ile	Pro	Pro	Asp	Gly	Phe	Lys	Gln	Ile
			340					345					350		
Arg	Gln	Gly	Met	Ile	Thr	Leu	Ile	Leu	Ala	Thr	Asp	Met	Ala	Arg	His
		355				360						365			
Ala	Glu	Ile	Met	Asp	Ser	Phe	Lys	Glu	Lys	Met	Glu	Asn	Phe	Asp	Tyr
		370				375					380				
Ser	Asn	Glu	Glu	His	Met	Thr	Leu	Leu	Lys	Met	Ile	Leu	Ile	Lys	Cys
385					390					395					400
Cys	Asp	Ile	Ser	Asn	Glu	Val	Arg	Pro	Met	Glu	Val	Ala	Glu	Pro	Trp
				405					410					415	
Val	Asp	Cys	Leu	Leu	Glu	Glu	Tyr	Phe	Met	Gln	Ser	Asp	Arg	Glu	Lys
			420					425					430		
Ser	Glu	Gly	Leu	Pro	Val	Ala	Pro	Phe	Met	Asp	Arg	Asp	Lys	Val	Thr
		435				440						445			
Lys	Ala	Thr	Ala	Gln	Ile	Gly	Phe	Ile	Lys	Phe	Val	Leu	Ile	Pro	Met
		450				455					460				
Phe	Glu	Thr	Val	Thr	Lys	Leu	Phe	Pro	Met	Val	Glu	Glu	Ile	Met	Leu
465					470					475					480
Gln	Pro	Leu	Trp	Glu	Ser	Arg	Asp	Arg	Tyr	Glu	Glu	Leu	Lys	Arg	Ile
				485					490					495	
Asp	Asp	Ala	Met	Lys	Glu	Leu	Gln	Lys	Lys	Thr	Asp	Ser	Leu	Thr	Ser
			500					505					510		
Gly	Ala	Thr	Lys	Lys	Ser	Arg	Glu	Arg	Ser	Arg	Asp	Val	Lys	Asn	Ser
		515					520					525			
Glu	Gly	Asp	Cys	Ala											
			530												

09629469.072800

<210> 11368  
<211> 1635  
<212> DNA  
<213> Homo sapiens

<400> 11368  
ttgaacattc ctttagtttc cagcttcata atttggttct tattaataata attctagaat 60  
tttcatgttt tttttaacca gctctctaaa ttgtgtttaca tgcacataaa atatgccatt 120  
ttaaccattt tcaggtgtgt ggttcagtgg ccttgggtac agaccagtg ttacacagcc 180  
accaccacca ccatcatctc cagagccttt ttatcttccc aaactgaagc tctgccccca 240  
ttaaacactc actccccacc ccgctcccc agcagggtta gatcgagag gggcctgccg 300  
ggggctctga ggtgatggaa accatctgag actgccatgg cgatgatcga gaaagtctgt 360  
gaatttacgg aaaattattg cattatatac ataaaagagg tgtgtgtaaa ctgtgccata 420  
ataaagccta aaaattagaa gcatgcttgt aacttagtgt atttaaata gtaattcgtt 480  
cagtcctgag gttagtatta ttgaaaaggt ttaattttgt totcatctct gccgctgtct 540  
gtagtgacct atagagaacc actgtgatca cctcctgtat gtatgcaaat ctgagcaaac 600  
gtaaacatat tttcttcttg ttttccttcc acaatcccc ccactccac ccccgcccat 660  
gtgtgtctgc gttttcccg cagggtcatgc aggcccgct tcactgtgtc agcccttcct 720  
gctgccctgc gggcccatg cactgcagac ccgctgcct cagacctgtg cctgcgtggc 780  
tggcacacct gttccctgag tcggagacgg cggctgcctg ttgagggcag ggtgcgtccg 840  
ctgcttatag agacgtgaag cccaccatgg ccattctgtt ggctgtcgtt tgtcaccagc 900  
tgtgttccc tatagaaacg tttctcgtct ttggggggct ttttctcat taagctctat 960  
ttcttaaagt ccatgacat actaatctag ctatgccagc tttctgttgg tgaatacttg 1020  
tgtgatattt ctgttcttaa aatgtcttaa atgtgacact gtttacaacg tagagctagg 1080  
tttttaaaa aaatcaaact tttttagctg gcacgttacc ttacacattc cacgattttc 1140  
catggaggat gtgagttggt tctgtcttta tttttttatt ttgctctttt cgtcagtttt 1200  
ttcctaattg ttccttctc cctgttgtct agtgaattag taactttctt taactctttt 1260  
ctttcttcct ctggtttgca aggtataagc tctacttctg ttataactagt ggttacaaaa 1320  
tgtataaact atttacattt ttagaaatcc aaagttggcc cggcgcggtg gctcacgcct 1380  
gtaatcctag cactttggga agccgaggtg ggcagatcac gaggtcagga gatcaagacc 1440  
attctggcca acttggtgaa acccgtctc tactaaaata caaaaaaatt agccgggcat 1500  
gatggtgcgc gcctgtagtc ccagctactc gggaggctga ggcagcgga tcgcttgaa 1560  
ccaggaggcg gaggttgag tgagccgaga tcgtgccacg gcatccagcc tggctacaga 1620  
gggagactct gtctc 1635

<210> 11369  
<211> 1777  
<212> DNA  
<213> Homo sapiens

<400> 11369  
ggcctactgg aagcagcgtc ctgaggagac agcggcacgt tctagctgcg tctgcggcca 60  
gcccgtgcca gtggagtggg ctccgcttg ctcatctct cgcacaggtt gtcagcctct 120  
gtccccgtc cacagggtct tgcctcttct ccggggcctg tgccagctcc cttccccccc 180  
cgttgtctc tccccacagc cattctggga gctggggaac ctggtctcaa ggcaggccct 240  
gcagttccac agaggtggca ggtcttggcc tttggccaac agatttcttg tctgtccttc 300  
tagatgcctc tgagctccaa acccagggca gccatggctt ctcatctaca ccaacaggtt 360

000220.69462960



```

tcagttccaa cagaaaggctc ggggtaggtt cgtgcagaga tggggctggc aggggggcta 420
tgggaggatt attttaacag atcaagaaaa tgaagccaaa tcaagtgaat taaattcctc 480
acaattatit tctttccctg aggtttgatt ggcacagcag caaaagtga ggccacccca 540
cttgtgtcca ctgttttttag aaaaaaatga atggcttctt gccattgttg ggctggactc 600
ttgggctttc ttgggtgggag cggagaaggg gcctcccacc cttgtccgag ttgcctccca 660
ctggaggtca ggagtctaca ctgcagcctc gggcactgtg gggagtgcac gcctggggcc 720
tctgggtggg gaccatggac aggccttggg cactgtccta acctttgtca ggacaaaggt 780
agcaagagga tttcctggcg ggtgggaagg aatggctggg gcggccagtt ttgacacgcc 840
ccagtgccct ggagaacaac cagggtcctc tgcacttgat gactgctccc cgaccccag 900
cccggacacc tcattccctt cccactacag ggatcaagtg acctgggaag aaccgagttt 960
aacaccagga tgtgtttcct tagatttctt ttcttaggcg atttccaggg agagccctga 1020
ttggacaatc acatcacaga tcacactgca gtttccatgt tagcactgtg gatgggtttt 1080
taatcaataa aaactggggg tttcttctca ccgactctcc acttgcccaa actgccaaaa 1140
gctggtgatt ctgggacagg ccttcacttt ggagccacgg gatgggggtg gggagcccca 1200
tgggcctggg aaggagggtg ctgtggaggg ggctgcaggg ctgaccagca ggcagcctca 1260
tctggctggg ggcgggggcg gcaggagcag aagogggggtc tccgtccttg ggactgtcct 1320
ggttggccac gggccctgag gatgcacggg gcctgggggt cctgtgccgg tgggcggggg 1380
gcatgctggc ctctgagcga tcaggcgagg ccagcgaggg tgtgcttgca aattcaagca 1440
ataagagggg ggttcttggt ggcttcacag ccaggctaga agcccccag gcttctggca 1500
gctggacatc agcccaggt attgggggtg ttttgggtcat gacagtgtgc ctgtccact 1560
gttacacgca tgaatggggg ttatgggggt ggggtgggga ctgagggtg gaccgacgtc 1620
ctagtggacc tgatgtgaaa ttctgttcaa acaaacacca cttttcaatg gtttgcctagg 1680
agtatttctg tattgaaagt ttctaattat gctttttaaa aaaatactaa aaataaaggt 1740
tcaagctgcc aaaaaaaaaa aaaaaaaggc cacatgt 1777

```

<210> 11370  
 <211> 1673  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (107).. (865)

```

<400> 11370
aaaaaaggcc gtgcagttcc tagcgaggag gcgcccgcgc cattgccgct ctctcggtga 60
gcgcagcccc gctctccggg ccgggccttc gggggccacc ggccgcatgg gccagtgcgg 120
catcacctcc tccaagaccg tgctggtctt tctcaacctc atcttctggg gggcagctgg 180
cattttatgc tatgtgggag cctatgtctt catcacttat gatgactatg accacttctt 240
tgaagatgtg tacacgctca tccctgctgt agtgatcata gctgtaggag ccctgctttt 300
catcattggg ctaattggct gctgtgccac aatccgggaa agtcgctgtg gacttgccac 360
gtttgtcatc atcctgctct tgggttttgt cacagaagtt gttgtagtgg ttttgggata 420
tgtttacaga gcaaagggtg aaaatgaggt tgatgcagc attcagaaag tgtataagac 480
ctacaatgga accaaccctg atgctgctag ccgggctatt gattatgtac agagacagct 540
gcattgttgt ggaattcaca actactcaga ctgggaaaat acagattggg tcaaagaaac 600
caaaaaccag agtgtccctc ttagctgctg cagagagact gccagcaatt gtaatggcag 660
cctggcccac ccttccgacc tctatgctga ggggtgtgag gctctagttg tgaagaagct 720

```

```

acaagaaatc atgatgcatg tgatctgggc cgcactggca tttgcagcta ttcagctgct 780
gggcatgctg tgtgcttgca tctgtttgtg cagaaggagt agagatcctg cttacgagct 840
cctcatcact ggcggaacct atgcatagtt gacaactcaa gcctgagctt tttggtcttg 900
ttctgatttg gaaggtgaat tgagcaggtc tgctgctgtt ggccctctgga gttcatttag 960
ttaaggcaca tgtacactgg tgttggacag agcagcttgg cttttcatgt gccacacctac 1020
ttacctacta cctgcgactt tctttttcct tgttctagct gactcttcat gccctaaga 1080
ttttaagtac gatggtgaac gttctaattt cagaaccaat tgcgagtcac gtagtgtggt 1140
agaattaaag gaggacacga gcctgcttct gttacctcca agtggtaaca ggactgatgc 1200
cgaaatgtca ccaggtcctt tcagtcttca cagtggagaa ctcttggcca aaggtttttg 1260
gggggaggag gaggaaacca gctttctggt taaggttaac accagatggt gccctcatt 1320
ggtgtccttt taaaaaatat ttactgtagt ccaataagat agcagctgta caaaatgact 1380
aaaatagatt gtaggatcat atggcgtata tcttggttca tcttcaaaat cagagactga 1440
gctttgaaac tagtggtttt taatcaaagt tggctttata ggaggagtat aatgtatgca 1500
ctactgtttt aaaagaatta gtgtgagtgt gtttttgtat gaatgagccc attcatggta 1560
agtcttaagc ttgttggaaa taatgtacco atgtagacta gcaaaatagt atgtagatgt 1620
gatctcagtt gtaaatagaa aaatctaatt caataaactc tgtatcagcc ccc 1673

```

<210> 11371  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 11371

Met	Gly	Gln	Cys	Gly	Ile	Thr	Ser	Ser	Lys	Thr	Val	Leu	Val	Phe	Leu
1				5					10					15	
Asn	Leu	Ile	Phe	Trp	Gly	Ala	Ala	Gly	Ile	Leu	Cys	Tyr	Val	Gly	Ala
			20					25					30		
Tyr	Val	Phe	Ile	Thr	Tyr	Asp	Asp	Tyr	Asp	His	Phe	Phe	Glu	Asp	Val
		35				40					45				
Tyr	Thr	Leu	Ile	Pro	Ala	Val	Val	Ile	Ile	Ala	Val	Gly	Ala	Leu	Leu
	50					55					60				
Phe	Ile	Ile	Gly	Leu	Ile	Gly	Cys	Cys	Ala	Thr	Ile	Arg	Glu	Ser	Arg
65				70					75					80	
Cys	Gly	Leu	Ala	Thr	Phe	Val	Ile	Ile	Leu	Leu	Leu	Val	Phe	Val	Thr
				85					90				95		
Glu	Val	Val	Val	Val	Val	Leu	Gly	Tyr	Val	Tyr	Arg	Ala	Lys	Val	Glu
			100				105					110			
Asn	Glu	Val	Asp	Arg	Ser	Ile	Gln	Lys	Val	Tyr	Lys	Thr	Tyr	Asn	Gly
	115					120						125			
Thr	Asn	Pro	Asp	Ala	Ala	Ser	Arg	Ala	Ile	Asp	Tyr	Val	Gln	Arg	Gln
	130					135					140				
Leu	His	Cys	Cys	Gly	Ile	His	Asn	Tyr	Ser	Asp	Trp	Glu	Asn	Thr	Asp
145				150					155					160	
Trp	Phe	Lys	Glu	Thr	Lys	Asn	Gln	Ser	Val	Pro	Leu	Ser	Cys	Cys	Arg
			165				170					175			
Glu	Thr	Ala	Ser	Asn	Cys	Asn	Gly	Ser	Leu	Ala	His	Pro	Ser	Asp	Leu
			180				185						190		

003220.69462960

Tyr	Ala	Glu	Gly	Cys	Glu	Ala	Leu	Val	Val	Lys	Lys	Leu	Gln	Glu	Ile
	195					200					205				
Met	Met	His	Val	Ile	Trp	Ala	Ala	Leu	Ala	Phe	Ala	Ala	Ile	Gln	Leu
	210					215					220				
Leu	Gly	Met	Leu	Cys	Ala	Cys	Ile	Val	Leu	Cys	Arg	Arg	Ser	Arg	Asp
225					230					235					240
Pro	Ala	Tyr	Glu	Leu	Leu	Ile	Thr	Gly	Gly	Thr	Tyr	Ala			
				245					250						

<210> 11372  
 <211> 2041  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (211).. (1821)

<400> 11372

aatatatgca	cctttcagtt	cacacgtggc	gccagcggag	gcaggttgat	gtgtttgtgc	60
ttccttctac	agccaatatg	aaaaggccta	gtaagtgggg	tcgggaggcg	ggcgtggagg	120
gacccacgtc	tggaagttgc	tcagaccacc	acgacgctct	tctacggcta	cggctttgtc	180
tctgctgagt	taaagaaaagc	aagtaaacgc	atgacctgcc	ataagcggta	taaaatccaa	240
aaaaagggtc	gagaacatca	tcgaaaatta	agaaaggagg	ctaaaaagcg	gggtcacaag	300
aagcctagga	aagaccacag	agttccaaac	agtgtctccct	ttaaggaggc	tcttcttagg	360
gaagctgagc	taaggaaaaca	gaggcttgaa	gaactaaaaac	agcagcagaa	acttgacagg	420
cagaaggaac	tagaaaagaa	aagaaaactt	gaaactaatc	ctgatattaa	gccatcaaat	480
gtggaaccta	tggaaaagga	gtttgggctt	tgcaaaaactg	agaacaaagc	caagtcgggc	540
aaacagaatt	caaagaagct	gtactgccaa	gaacttaaaa	aggtgattga	agcctccgat	600
gttgtcctag	aggtgttgga	tgccagagat	cctcttgggt	gcagatgtcc	tcaggtagaa	660
gaggccattg	tccagagtgg	acagaaaaag	ctgggtactta	tattaaataa	atcagatctg	720
gtaccaaagg	agaatttgga	gagctggcta	aattatttga	agaaagaatt	gccaacagtg	780
gtgttcagag	cctcaacaaa	accaaaggat	aaagggaaga	taaccaagcg	tgtgaaggca	840
aagaagaatg	ctgctccatt	cagaagtga	gtctgctttg	ggaaagaggg	cctttggaaa	900
cttcttggag	gttttcagga	aacttgcagc	aaagccattc	gggttggagt	aatttggttc	960
ccaaatgtgg	ggaaaagcag	cattatcaat	agcttaaaac	aagaacagat	gtgtaatgtt	1020
gggtgatcca	tggggccttac	aaggagcatg	caagttgtcc	ccttggacaa	acagatcaca	1080
atcatagata	gtccgagctt	catcgtatct	ccacttaatt	cctcctctgc	gcttgctctg	1140
cgaagtccag	caagtattga	agtagtaaaa	ccgatggagg	ctgccagtgc	catcctttcc	1200
caggctgatg	ctcgacaggt	agtactgaaa	tatactgtcc	caggctacag	gaattctctg	1260
gaatttttta	ctgtgcttgc	tcagagaaga	ggtatgcacc	aaaaagggtg	aatcccaa	1320
gttgaagggtg	ctgccaaact	gctgtggtct	gagtggacag	gtgcctcatt	agcttactat	1380
tgccatcccc	ctacatcttg	gactcctcct	ccatatttta	atgagagtat	tgtggttagac	1440
atgaaaagcg	gcttcaatct	ggaagaactg	gaaaagaaca	atgcacagag	cataagagcc	1500
atcaagggcc	ctcatttggc	caatagcatc	cttttccagt	cttcgggtct	gacaaatgga	1560
ataatagaag	aaaaggacat	acatgaagaa	ttgccaaaac	ggaaagaaag	gaagcaggag	1620
gagagggagg	atgacaaaaga	cagtgaccag	gaaactgttg	atgaagaagt	tgatgaaaac	1680

09629469-072800

```

agctcaggca tgtttgctgc agaagagaca ggggaggcac tgtctgagga gactacagca 1740
ggtgaacagt ctacaaggtc ttttatcttg gataaaatca ttgaagagga tgatgcttat 1800
gacttcagta cagattatgt gtaacagAAC aatggctttt tatgattttt ttttaacat 1860
tttaagcaga ctgctaaact gttctctgta taagttatgg tatgcatgag ctgtgtaaAT 1920
tttgtgaata tgtattatat taaaaccagg caacttggaa tccctaaatt ctgtaaaaag 1980
acaattcatc tcattgtgag tggaagtagt tatctggaat aaaaaaagaa gataacctatt 2040
g
2041

```

<210> 11373  
 <211> 537  
 <212> PRT  
 <213> Homo sapiens

<400> 11373

Met	Thr	Cys	His	Lys	Arg	Tyr	Lys	Ile	Gln	Lys	Lys	Val	Arg	Glu	His
1				5					10					15	
His	Arg	Lys	Leu	Arg	Lys	Glu	Ala	Lys	Lys	Arg	Gly	His	Lys	Lys	Pro
			20					25					30		
Arg	Lys	Asp	Pro	Gly	Val	Pro	Asn	Ser	Ala	Pro	Phe	Lys	Glu	Ala	Leu
		35					40					45			
Leu	Arg	Glu	Ala	Glu	Leu	Arg	Lys	Gln	Arg	Leu	Glu	Glu	Leu	Lys	Gln
	50					55					60				
Gln	Gln	Lys	Leu	Asp	Arg	Gln	Lys	Glu	Leu	Glu	Lys	Lys	Arg	Lys	Leu
65				70					75						80
Glu	Thr	Asn	Pro	Asp	Ile	Lys	Pro	Ser	Asn	Val	Glu	Pro	Met	Glu	Lys
				85					90					95	
Glu	Phe	Gly	Leu	Cys	Lys	Thr	Glu	Asn	Lys	Ala	Lys	Ser	Gly	Lys	Gln
			100					105					110		
Asn	Ser	Lys	Lys	Leu	Tyr	Cys	Gln	Glu	Leu	Lys	Lys	Val	Ile	Glu	Ala
		115					120						125		
Ser	Asp	Val	Val	Leu	Glu	Val	Leu	Asp	Ala	Arg	Asp	Pro	Leu	Gly	Cys
	130						135				140				
Arg	Cys	Pro	Gln	Val	Glu	Glu	Ala	Ile	Val	Gln	Ser	Gly	Gln	Lys	Lys
145					150					155					160
Leu	Val	Leu	Ile	Leu	Asn	Lys	Ser	Asp	Leu	Val	Pro	Lys	Glu	Asn	Leu
				165					170					175	
Glu	Ser	Trp	Leu	Asn	Tyr	Leu	Lys	Lys	Glu	Leu	Pro	Thr	Val	Val	Phe
			180					185					190		
Arg	Ala	Ser	Thr	Lys	Pro	Lys	Asp	Lys	Gly	Lys	Ile	Thr	Lys	Arg	Val
		195					200						205		
Lys	Ala	Lys	Lys	Asn	Ala	Ala	Pro	Phe	Arg	Ser	Glu	Val	Cys	Phe	Gly
	210					215					220				
Lys	Glu	Gly	Leu	Trp	Lys	Leu	Leu	Gly	Gly	Phe	Gln	Glu	Thr	Cys	Ser
225					230					235					240
Lys	Ala	Ile	Arg	Val	Gly	Val	Ile	Gly	Phe	Pro	Asn	Val	Gly	Lys	Ser
				245					250					255	
Ser	Ile	Ile	Asn	Ser	Leu	Lys	Gln	Glu	Gln	Met	Cys	Asn	Val	Gly	Val

008240 69462960

<210> 11374

<212> DNA

<213> Home

**<220>**

**<221> CDS**

$\langle 222 \rangle$  (400) .. (840)

<400> 11374

agcagggagg aagacaggca atccctccgg ctgtccgacc aagagaggcc ggccgagccc 60

003270 69462960

```

gaggcttggg cttttgcttt ctggcggagg gatctgcggc ggtttaggag gcggcgctga 120
tcctgggagg aagaggcagc tacggcggcg gcggcgggtg cggctagggc ggcggcgaat 180
aaaggggccc ccgcccgggtg atgcggtgac cgctgcggca ggcccaggag ctgagtgggc 240
cccggccctc agcccgtccc gccggaccgc ctttctcaa ctctccatct tctcctgccg 300
accgagatcg ccgaggcggc ctcaggctcc ctagccctt ccccgctccct tccccgcccc 360
cgtccccgcc ccggggggccg ccgccaccgc cctcccacca tggctctgaa gagaatccac 420
aaggaattga atgatctggc acgggaccct ccagcacagt gttcagcagg tcctgttgga 480
gatgatatgt tccattggca agctacaata atggggccaa atgacagtcc ctatcagggt 540
ggagtatttt tcttgacaat tcatttccca acagattacc ccttcaaacc acctaaaggt 600
gcatttacaa caagaattta tcatccaaat attaacagta atggcagcat ttgtcttgat 660
attctacgat cacagtggtc tccagcacta actatttcaa aagtaactct gtccatctgt 720
tctctgttgt gtgatccaa tccagatgat cctttagtgc ctgagattgc tcggatctac 780
aaaacagata gagaaaagta caacagaata gctcgggaat ggactcagaa gtatgcgatg 840
taattaaaga aattattgga taacctctac aaataaagat aggggaactc tgaaagagaa 900
agtccttttg atttccattt gactgctttc tatgagocca cgctcatct tccctgtgc 960
acatgtttac ctgatacagc agtgctgcgt gttgtacata cttggaacaa caaactagaa 1020
atactgtact tctgtaccaa cattgcctcc tagcagagaa gtgtgtgtgt gacaagccag 1080
ttctacaggc attacctagg tgtgagacta aaagcttttc ttattgactt aaatttggat 1140
aacagcaagg tgtgaggggg gtggtgggta tgggtgtgtc ttggatggga aagaaaaggc 1200
tccactcacc tataggagat ttttttaag tggaatccat ttaaaactcaa aacagttatg 1260
aaaagcaagg tgaagaacat gaagctgtgt ctgtattcat tttattccga aggagctacg 1320
tcttaggtga aagttatgac caaccagatt aaactctacc cacatcctgc attttaaggt 1380
ctaagtttaa ctggtcaaca tttaaatgga ttggagctat tagtacatca agtgtgatgg 1440
gctttgttcc caactctttt acatctccct accccttcaa cctttggcct ttcagccctt 1500
ctttctctct tccatattct ttggtttgta tgtggtttct cagttaatac atagctaata 1560
gctcttattt ttcttatgtt tttaacgcgt taggtctatt tggatgtaag ggtgaaaatt 1620
catttgatgg aaatacttgt gtatatttaa agaccaaat gctcctctgg agcttgtact 1680
ttcaagaatg attaactctgt gtaataaact ggtiactaca gtcattacat at 1732

```

<210> 11375

<211> 147

<212> PRT

<213> Homo sapiens

<400> 11375

```

Met Ala Leu Lys Arg Ile His Lys Glu Leu Asn Asp Leu Ala Arg Asp
  1             5             10             15
Pro Pro Ala Gln Cys Ser Ala Gly Pro Val Gly Asp Asp Met Phe His
          20             25             30
Trp Gln Ala Thr Ile Met Gly Pro Asn Asp Ser Pro Tyr Gln Gly Gly
          35             40             45
Val Phe Phe Leu Thr Ile His Phe Pro Thr Asp Tyr Pro Phe Lys Pro
          50             55             60
Pro Lys Val Ala Phe Thr Thr Arg Ile Tyr His Pro Asn Ile Asn Ser
          65             70             75             80
Asn Gly Ser Ile Cys Leu Asp Ile Leu Arg Ser Gln Trp Ser Pro Ala
          85             90             95

```

Leu Thr Ile Ser Lys Val Leu Leu Ser Ile Cys Ser Leu Leu Cys Asp  
 100 105 110  
 Pro Asn Pro Asp Asp Pro Leu Val Pro Glu Ile Ala Arg Ile Tyr Lys  
 115 120 125  
 Thr Asp Arg Glu Lys Tyr Asn Arg Ile Ala Arg Glu Trp Thr Gln Lys  
 130 135 140  
 Tyr Ala Met  
 145

<210> 11376  
 <211> 2355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (67)..(1620)

<400> 11376  
 agcggagggt cccgggctccg ggatgaaagg aggggaacgca gctggcagag agagaagttg 60  
 gctagcatgg aatcaccaga ggagcctgga gcatccatgg atgagaacta ctttgtgaac 120  
 tacactttca aagatcggtc acattcaggc cgtgtggctc aaggcatcat gaaactgtgt 180  
 ctagaggagg agctctttgc tgatgtcacc atttcgggtg aaggccggga gtttcagctc 240  
 catcggctgg tcctctcagc tcagagctgc ttcttcgat ccatgttcac ttccaacctg 300  
 aaggaggccc acaaccgggt gattgtgctg caggatgtca gcgagtctgt tttccagctc 360  
 ctggttgatt atatctacca tgggactgtg aaacttcgag ctgaggagtt gcaggaaatt 420  
 tatgagggtg cagacatgta tcagctgaca tctctctttg aggaatgctc tcggtttttg 480  
 gcccgcacag tgcaagtggg aaactgcctt cagggtgatgt ggctggcaga tcggcacagt 540  
 gatcctgagc tctatacggc tgccaagcac tgtgccaaga cccacctggc ccagctgcag 600  
 aatacagagg aatttctcca cttgccccac cgcttactca cagatatcac ctcggttgga 660  
 gtcccggtgt ctcagaacct aacagaggca atagaagcct ggatcaactt taataaagag 720  
 gaaagagagg cttttgcaga gtcactcagg acaagcttga aggaaattgg ggagaatgtg 780  
 cacatttacc tgattgggaa agagtcatct cgtaccact cgttgggtgt gtccttgcac 840  
 tgtgcagaag atgactccat cagtgttaagt ggccaaaaca gtttgtgcca ccagatcact 900  
 gcggcctgca agcatggtgg agacttgtat gtgggtgggag ggtccatccc acggcgcagt 960  
 tggaagtgca acaatgccac cgttgactgg gagtgggtgt ctcttttggc tcgggaccgg 1020  
 ctccagcaca ccctggtgtc tgtgcccggg aaagatgcca tatattcact ggggtggcaag 1080  
 acactgcaag ataccctctc caacgcagtc atttattatc gcgtagggtga taatgtgtgg 1140  
 acagagacaa ctcagctaga ggtggctgtg tcaggggctg ctggtgccaa cctcaacggg 1200  
 atcatctact tactaggggg ggaggagaat gatctggact tctttaccaa acctcccca 1260  
 ctcatccagt gctttgacac agagacagac aaatgccatg tgaagcccta tgtgtgccc 1320  
 tttgcaggcc gcatgcacgc agctgtgcat aaagatctgg tgttcatcgt ggctgaaggg 1380  
 gactccctgg tgcgctacaa tcccttgcta gacagcttca cccggctttg ccttcctgag 1440  
 gcctggagct ctgccccatc cctctggaag attgccagct gtaacggggag catctatgtc 1500  
 ttccggggacc gatataaaaa ggggggatgcc aacacctaca agcttgacco tgccacttca 1560  
 gccataactg tcacaagagg tattaagggt ctgcttacca atttgcagtt tgtgttggcc 1620  
 taaggctgtg gggagggggag gagaactgct cactcctttt ccctcccat acaaaactcaa 1680

09629469.072800

```

agtccccctgg gccccaattc agagttatgt tttttttggc acataactaga aaggcagtgc 1740
ctcagccctt ccctgaatcc atggaggtgt tctgtttggg gctttttaga ctgctgctgc 1800
tcagctgggt gcttgaactg acagtaggcc agcctgttct ctgccattcc ctagtcatcc 1860
tgtgcctcac cacagcttgc ttagagcaag ccttttctca gaccttaggc acagcctctc 1920
ctctttacct gatcaatgtt aaatgtaagc acccctgata ccaggacata aggaaagatg 1980
cccaattgta cttttgttct atagcctgtg aaatggctag ttgatcattt ttccacaaag 2040
aattaggtgt taagagtttt ccttcaggct ttacttagga gaatggacta agctgaaggt 2100
gtacttcacc agcaagagtc aactctagaa ttccaggatgt tccttctatt gttttcttag 2160
ccatctgtca ggaaatgtaa ctttggtttt atttttggct tattccaagg ggtaagccag 2220
aaaatagaaa tgattatttc tgattaatag cagaaacttt ttcaatctca aatatataag 2280
gtgtctgctc ttttaaaagc tctaagctaa gtcaagagct aggaactgtt gatacaaata 2340
aaagtttttg aaggg                                     2355

```

<210> 11377  
 <211> 518  
 <212> PRT  
 <213> Homo sapiens

<400> 11377

Met	Glu	Ser	Pro	Glu	Glu	Pro	Gly	Ala	Ser	Met	Asp	Glu	Asn	Tyr	Phe
1				5				10					15		
Val	Asn	Tyr	Thr	Phe	Lys	Asp	Arg	Ser	His	Ser	Gly	Arg	Val	Ala	Gln
			20				25					30			
Gly	Ile	Met	Lys	Leu	Cys	Leu	Glu	Glu	Leu	Phe	Ala	Asp	Val	Thr	
		35				40				45					
Ile	Ser	Val	Glu	Gly	Arg	Glu	Phe	Gln	Leu	His	Arg	Leu	Val	Leu	Ser
	50				55					60					
Ala	Gln	Ser	Cys	Phe	Phe	Arg	Ser	Met	Phe	Thr	Ser	Asn	Leu	Lys	Glu
65					70				75					80	
Ala	His	Asn	Arg	Val	Ile	Val	Leu	Gln	Asp	Val	Ser	Glu	Ser	Val	Phe
			85					90				95			
Gln	Leu	Leu	Val	Asp	Tyr	Ile	Tyr	His	Gly	Thr	Val	Lys	Leu	Arg	Ala
			100					105				110			
Glu	Glu	Leu	Gln	Glu	Ile	Tyr	Glu	Val	Ser	Asp	Met	Tyr	Gln	Leu	Thr
		115					120				125				
Ser	Leu	Phe	Glu	Glu	Cys	Ser	Arg	Phe	Leu	Ala	Arg	Thr	Val	Gln	Val
	130					135					140				
Gly	Asn	Cys	Leu	Gln	Val	Met	Trp	Leu	Ala	Asp	Arg	His	Ser	Asp	Pro
145					150					155				160	
Glu	Leu	Tyr	Thr	Ala	Ala	Lys	His	Cys	Ala	Lys	Thr	His	Leu	Ala	Gln
			165						170				175		
Leu	Gln	Asn	Thr	Glu	Glu	Phe	Leu	His	Leu	Pro	His	Arg	Leu	Leu	Thr
		180						185				190			
Asp	Ile	Thr	Ser	Asp	Gly	Val	Pro	Cys	Ser	Gln	Asn	Pro	Thr	Glu	Ala
	195					200					205				
Ile	Glu	Ala	Trp	Ile	Asn	Phe	Asn	Lys	Glu	Glu	Arg	Glu	Ala	Phe	Ala
210						215					220				

09629469.072800



Glu Ser Leu Arg Thr Ser Leu Lys Glu Ile Gly Glu Asn Val His Ile  
 225 230 235 240  
 Tyr Leu Ile Gly Lys Glu Ser Ser Arg Thr His Ser Leu Gly Val Ser  
 245 250 255  
 Leu His Cys Ala Glu Asp Asp Ser Ile Ser Val Ser Gly Gln Asn Ser  
 260 265 270  
 Leu Cys His Gln Ile Thr Ala Ala Cys Lys His Gly Gly Asp Leu Tyr  
 275 280 285  
 Val Val Gly Gly Ser Ile Pro Arg Arg Met Trp Lys Cys Asn Asn Ala  
 290 295 300  
 Thr Val Asp Trp Glu Trp Cys Ala Pro Leu Pro Arg Asp Arg Leu Gln  
 305 310 315 320  
 His Thr Leu Val Ser Val Pro Gly Lys Asp Ala Ile Tyr Ser Leu Gly  
 325 330 335  
 Gly Lys Thr Leu Gln Asp Thr Leu Ser Asn Ala Val Ile Tyr Tyr Arg  
 340 345 350  
 Val Gly Asp Asn Val Trp Thr Glu Thr Thr Gln Leu Glu Val Ala Val  
 355 360 365  
 Ser Gly Ala Ala Gly Ala Asn Leu Asn Gly Ile Ile Tyr Leu Leu Gly  
 370 375 380  
 Gly Glu Glu Asn Asp Leu Asp Phe Phe Thr Lys Pro Ser Arg Leu Ile  
 385 390 395 400  
 Gln Cys Phe Asp Thr Glu Thr Asp Lys Cys His Val Lys Pro Tyr Val  
 405 410 415  
 Leu Pro Phe Ala Gly Arg Met His Ala Ala Val His Lys Asp Leu Val  
 420 425 430  
 Phe Ile Val Ala Glu Gly Asp Ser Leu Val Arg Tyr Asn Pro Leu Leu  
 435 440 445  
 Asp Ser Phe Thr Arg Leu Cys Leu Pro Glu Ala Trp Ser Ser Ala Pro  
 450 455 460  
 Ser Leu Trp Lys Ile Ala Ser Cys Asn Gly Ser Ile Tyr Val Phe Arg  
 465 470 475 480  
 Asp Arg Tyr Lys Lys Gly Asp Ala Asn Thr Tyr Lys Leu Asp Pro Ala  
 485 490 495  
 Thr Ser Ala Ile Thr Val Thr Arg Gly Ile Lys Val Leu Leu Thr Asn  
 500 505 510  
 Leu Gln Phe Val Leu Ala  
 515

<210> 11378  
 <211> 1890  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (24).. (1670)

009220.69462960

<400> 11378

```

ttgtgcttcc ttctacagcc aatatgaaaa ggcctaagtt aaagaaagca agtaaacgca 60
tgacctgcca taagcggat aaatccaaa aaaaggttcg agaaccatcat cgaaaattaa 120
gaaaggaggg taaaaagcgg ggtcacaaga agcctaggaa agaccagga gttccaaaca 180
gtgctccctt taaggaggct cttcttaggg aagctgagct aaggaaacag aggcttgaag 240
aactaaaaca gcagcagaaa cttgacaggc agaaggaact agaaaagaaa agaaaacttg 300
aaactaatcc tgatattaag ccatcaaatg tggaacctat ggaaaaggag tttgggcttt 360
gcaaaactga gaacaaagcc aagtcgggca aacagaattc aaagaagctg tactgccaag 420
aacttaaaaa ggtgattgaa gcctccgatg ttgtcctaga ggtgttggtt gccagagatc 480
ctcttggttg cagatgtcct caggtagaag aggccattgt ccagagtggg cagaaaaagc 540
tggtacttat attaaataaa tcagatctgg taccaaagga gaatttgagg agctggctaa 600
attatttgaa gaaagaattg ccaacagtgg tgttcagagc ctcaacaaaa ccaaaggata 660
aagggaagat aaccaagcgt gtgaaggcaa agaagaatgc tgotccattc agaagtgaag 720
tctgctttgg gaaagagggc ctttggaac ttcttgaggg ttttcaggaa acttgagca 780
aagccattcg ggttgaggta attggtttcc caaatgtggg gaaaagcagc attatcaata 840
gcttaaaaca agaacagatg tgtaatgttg gtgtatccat ggggcttaca aggagcatgc 900
aagttgtccc cttggacaaa cagatcacaa tcatagatag tccgagcttc atcgtatctc 960
cacttaattc ctctctgctg cttgctctgc gaagtccagc aagtattgaa gtagtaaaac 1020
cgatggaggc tgccagtgcc atcctttccc aggcctgatgc tcgacaggta gtactgaaat 1080
atactgtccc aggcctacagg aattctcttg aattttttac tgtgcttgct cagagaagag 1140
gtatgcacca aaaagggtgga atcccaaatt ttgaagggtgc tgccaaactg ctgtggtctg 1200
agtggacagg tgccctcatta gcttactatt gccatcccc tacatcttgg actcctctc 1260
catattttta tgagagtatt gtggtagaca tgaaaagcgg cttcaatctg gaagaactgg 1320
aaaagaacaa tgcacagagc ataagagcca tcaaggggcc tcatttggcc aatagcatcc 1380
ttttccagtc ttccggtctg acaaattgga tgatagaaga aaaggacata catgaagaat 1440
tgccaaaacg gaaagaaagg aagcaggagg agaggaggga tgacaaagac agtgaccagg 1500
aaactgttga tgaagaagtt gatgaaaaca gctcaggcat gtttgctgca gaagagacag 1560
gggaggcact gtctgaggag actacagcag gtgaacagtc tacaaggctt tttatcttgg 1620
ataaaatcat tgaagaggat gatgcttatg acttcagtac agattatgtg taacagaaca 1680
atggcttttt atgatttttt ttttaacatt ttaagcagac tgctaaactg ttctctgtat 1740
aagttatggt atgcatgagc tgtgtaaatt ttgtgaatat gtattatatt aaaaccaggc 1800
aacttggaat ccctaaattc tgtaaaaaga caattcatct cattgtgagt ggaagtagtt 1860
atctggaata aaaaaagaag atacctattg                                     1890

```

<210> 11379

<211> 549

<212> PRT

<213> Homo sapiens

<400> 11379

```

Met Lys Arg Pro Lys Leu Lys Lys Ala Ser Lys Arg Met Thr Cys His
  1                   5                   10                   15
Lys Arg Tyr Lys Ile Gln Lys Lys Val Arg Glu His His Arg Lys Leu
                   20                   25                   30
Arg Lys Glu Ala Lys Lys Arg Gly His Lys Lys Pro Arg Lys Asp Pro
                   35                   40                   45

```

008220-69462960

Gly	Val	Pro	Asn	Ser	Ala	Pro	Phe	Lys	Glu	Ala	Leu	Leu	Arg	Glu	Ala
50						55					60				
Glu	Leu	Arg	Lys	Gln	Arg	Leu	Glu	Glu	Leu	Lys	Gln	Gln	Gln	Lys	Leu
65					70					75					80
Asp	Arg	Gln	Lys	Glu	Leu	Glu	Lys	Lys	Arg	Lys	Leu	Glu	Thr	Asn	Pro
				85					90					95	
Asp	Ile	Lys	Pro	Ser	Asn	Val	Glu	Pro	Met	Glu	Lys	Glu	Phe	Gly	Leu
			100					105					110		
Cys	Lys	Thr	Glu	Asn	Lys	Ala	Lys	Ser	Gly	Lys	Gln	Asn	Ser	Lys	Lys
		115					120					125			
Leu	Tyr	Cys	Gln	Glu	Leu	Lys	Lys	Val	Ile	Glu	Ala	Ser	Asp	Val	Val
130						135					140				
Leu	Glu	Val	Leu	Asp	Ala	Arg	Asp	Pro	Leu	Gly	Cys	Arg	Cys	Pro	Gln
145					150					155					160
Val	Glu	Glu	Ala	Ile	Val	Gln	Ser	Gly	Gln	Lys	Lys	Leu	Val	Leu	Ile
				165					170						175
Leu	Asn	Lys	Ser	Asp	Leu	Val	Pro	Lys	Glu	Asn	Leu	Glu	Ser	Trp	Leu
			180					185					190		
Asn	Tyr	Leu	Lys	Lys	Glu	Leu	Pro	Thr	Val	Val	Phe	Arg	Ala	Ser	Thr
		195					200					205			
Lys	Pro	Lys	Asp	Lys	Gly	Lys	Ile	Thr	Lys	Arg	Val	Lys	Ala	Lys	Lys
210						215					220				
Asn	Ala	Ala	Pro	Phe	Arg	Ser	Glu	Val	Cys	Phe	Gly	Lys	Glu	Gly	Leu
225					230					235					240
Trp	Lys	Leu	Leu	Gly	Gly	Phe	Gln	Glu	Thr	Cys	Ser	Lys	Ala	Ile	Arg
				245					250					255	
Val	Gly	Val	Ile	Gly	Phe	Pro	Asn	Val	Gly	Lys	Ser	Ser	Ile	Ile	Asn
			260					265					270		
Ser	Leu	Lys	Gln	Glu	Gln	Met	Cys	Asn	Val	Gly	Val	Ser	Met	Gly	Leu
		275					280					285			
Thr	Arg	Ser	Met	Gln	Val	Val	Pro	Leu	Asp	Lys	Gln	Ile	Thr	Ile	Ile
	290					295					300				
Asp	Ser	Pro	Ser	Phe	Ile	Val	Ser	Pro	Leu	Asn	Ser	Ser	Ser	Ala	Leu
305					310					315					320
Ala	Leu	Arg	Ser	Pro	Ala	Ser	Ile	Glu	Val	Val	Lys	Pro	Met	Glu	Ala
				325					330					335	
Ala	Ser	Ala	Ile	Leu	Ser	Gln	Ala	Asp	Ala	Arg	Gln	Val	Val	Leu	Lys
			340					345					350		
Tyr	Thr	Val	Pro	Gly	Tyr	Arg	Asn	Ser	Leu	Glu	Phe	Phe	Thr	Val	Leu
		355					360					365			
Ala	Gln	Arg	Arg	Gly	Met	His	Gln	Lys	Gly	Gly	Ile	Pro	Asn	Val	Glu
	370					375					380				
Gly	Ala	Ala	Lys	Leu	Leu	Trp	Ser	Glu	Trp	Thr	Gly	Ala	Ser	Leu	Ala
385					390					395					400
Tyr	Tyr	Cys	His	Pro	Pro	Thr	Ser	Trp	Thr	Pro	Pro	Pro	Tyr	Phe	Asn
			405						410					415	
Glu	Ser	Ile	Val	Val	Asp	Met	Lys	Ser	Gly	Phe	Asn	Leu	Glu	Glu	Leu
			420					425					430		

008220.69462960

Glu Lys Asn Asn Ala Gln Ser Ile Arg Ala Ile Lys Gly Pro His Leu  
435 440 445  
Ala Asn Ser Ile Leu Phe Gln Ser Ser Gly Leu Thr Asn Gly Met Ile  
450 455 460  
Glu Glu Lys Asp Ile His Glu Glu Leu Pro Lys Arg Lys Glu Arg Lys  
465 470 475 480  
Gln Glu Glu Arg Glu Asp Asp Lys Asp Ser Asp Gln Glu Thr Val Asp  
485 490 495  
Glu Glu Val Asp Glu Asn Ser Ser Gly Met Phe Ala Ala Glu Glu Thr  
500 505 510  
Gly Glu Ala Leu Ser Glu Glu Thr Thr Ala Gly Glu Gln Ser Thr Arg  
515 520 525  
Ser Phe Ile Leu Asp Lys Ile Ile Glu Glu Asp Asp Ala Tyr Asp Phe  
530 535 540  
Ser Thr Asp Tyr Val  
545

<210> 11380  
<211> 2593  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1691).. (2524)

<400> 11380  
agcttctctc gccaggcgctc ctctgtggaag gttcgtgtgc tagttagatg ggccgccagg 60  
gtcgcggcg ggaagcatgg aggggtcttt gggggccttt gggaacatgg agtcctattc 120  
tgttccgcct ggggcctcgg tggcggccttg cagcggccga gatgacggcc gctgccctag 180  
gcaggggcgg cgggcgattg cgcgtgtcct gctcctotta ggcccgggac cgcgggatgg 240  
gtgtcggcgt gaccaggcct gagctccctg tctctcctca gtgacatcgt cttaaacc 300  
tgcgtggcaa tccctgacgc accgccgtga tgcccaggga agacaggcg acctggaagt 360  
ccaactactt ccttaagatc atcgtaagtg cagggtgggt cgcctctgct ctcatgttg 420  
ccccagcgca aatagggaca gtcagctgct atgtgctgag ggtctactca caccggctac 480  
tgaattagga catttttggg aaaatactgt ttagttaaca atttctgag ataggtccct 540  
tctgttgag ataaacgggc tcaggcaagt taagtgggtc ctaagatgac agcattcgta 600  
tccaggtctg tctggcttct aaaagagcgc gctttatact ttttttttt ttaacggagt 660  
ctcgtctgt tgtccaggct ggagtgcagt ggcttgatct tggcttactg caacctccgc 720  
ttcccagggt caagcgattc tctgtcttca gcctcccgag tagctgggat tacagggcg 780  
cgacaccaca cccagcta atttgtat tcaatagaga cagggttca ccatgttggc 840  
caggatggtc tcatctctt gacttcatga tccaccttc toggcctccc taagtgtctag 900  
gattacaggt gtgagccacc gcgcccggcc gcacattaca gttttactcc atttttgaga 960  
aggtctgagg tcaggaatga ctcatgttaa ggaagcaagc tgttgcatat ttaggacctg 1020  
tcagccaaga aacttaagt tccaatgact ttggatggc ctttgagggt ggtctccctt 1080  
gccagaaat gctgactgta ctgcgttaa gcaattagga agcattgtag agcatagctt 1140  
gtattacatt ttccacact tagaagggtt tcagacacaa aacccaaagg aattgtgtaa 1200

09629469.072800

```

caatccggat aaacacgcct agattgtttt tacaaataat aatgttgcta tatttgctta 1260
acgtgggtgct tttaatgctg tgaatctagc cctcctcttg accaacttac ttggaacatt 1320
ccttttttat cctgttaacc attttagtga atcagaagca tgcctggtaa ttgggaaaaa 1380
ttaaaaaacta agtaaaaaaa gaaaaaactc cttgattgaa ttagaagacc taattttcag 1440
cattcatacc cagctagcca atcatccagt ttggcagtg tacaacgtag ctcccaatct 1500
ccctctgact tcaaaagctt agaagaaagg gagtgggatg gaaacaaatt gtgggggttca 1560
gtttcttctg gcattttttc cctctctctt cctgttaaac ttggctcctc tggcttggtt 1620
ttttagtagcaa ctattggatg attatccgaa atgtttcatt gtgggagcag acaatgtggg 1680
ctccaagcag atgcagcaga tccgcatgtc ccttcgcggg aaggctgtgg tgctgatggg 1740
caagaacacc atgatgcgca aggccatccg agggcacctg gaaaacaacc cagctctgga 1800
gaaactgctg cctcatatcc gggggaatgt gggctttgtg ttcaccaagg aggacctcac 1860
tgagatcagg gacatgttgc tggccaataa ggtgccagct gctgcccgtg ctggtgccat 1920
tgccccatgt gaagtcactg tgccagccca gaacactggt ctcggggcccg agaagacctc 1980
ctttttccag gctttaggtg tcaccactaa aatctccagg ggcaaccattg aaatcctgag 2040
tgatgtgcag ctgatcaaga ctggagacaa agtgggagcc agcgaagcca cgctgctgaa 2100
catgctcaac atctccccct tctcctttgg gctggtcatc cagcaggtgt tcgacaatgg 2160
cagcatctac aacctgaag tgcttgatat cacagaggaa actctgcatt ctgccttcct 2220
ggaggggtgtc cgcaatgttg ccagtgtctg tctgcagatt ggctacccaa ctggtgcac 2280
agtaccccat tctatcatca acgggtacaa acgagtctgt gccttgtctg tggagacgga 2340
ttacaccttc ccacttgctg aaaaggtcaa ggcttcttgc gctgatccat ctgccttctg 2400
ggctgctgcc cctgtggctg ctgccaccac agctgctcct gctgctgctg cagccccagc 2460
caaggttgaa gccaaaggaag agtcggagga gtcggacgag gatatgggat ttggtctctt 2520
tgactaatca ccaaaaagca accaacttag ccagttttat ttgcaaaaaca aggaaataaa 2580
ggcttacttc ttt                                     2593

```

<210> 11381  
 <211> 278  
 <212> PRT  
 <213> Homo sapiens

<400> 11381

Met	Gln	Gln	Ile	Arg	Met	Ser	Leu	Arg	Gly	Lys	Ala	Val	Val	Leu	Met
1				5					10					15	
Gly	Lys	Asn	Thr	Met	Met	Arg	Lys	Ala	Ile	Arg	Gly	His	Leu	Glu	Asn
			20					25					30		
Asn	Pro	Ala	Leu	Glu	Lys	Leu	Leu	Pro	His	Ile	Arg	Gly	Asn	Val	Gly
		35				40					45				
Phe	Val	Phe	Thr	Lys	Glu	Asp	Leu	Thr	Glu	Ile	Arg	Asp	Met	Leu	Leu
	50					55				60					
Ala	Asn	Lys	Val	Pro	Ala	Ala	Ala	Arg	Ala	Gly	Ala	Ile	Ala	Pro	Cys
65					70					75				80	
Glu	Val	Thr	Val	Pro	Ala	Gln	Asn	Thr	Gly	Leu	Gly	Pro	Glu	Lys	Thr
			85						90					95	
Ser	Phe	Phe	Gln	Ala	Leu	Gly	Ile	Thr	Thr	Lys	Ile	Ser	Arg	Gly	Thr
			100					105					110		
Ile	Glu	Ile	Leu	Ser	Asp	Val	Gln	Leu	Ile	Lys	Thr	Gly	Asp	Lys	Val
			115					120					125		

009220" 69462960

Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe  
130 135 140  
Ser Phe Gly Leu Val Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr  
145 150 155 160  
Asn Pro Glu Val Leu Asp Ile Thr Glu Glu Thr Leu His Ser Arg Phe  
165 170 175  
Leu Glu Gly Val Arg Asn Val Ala Ser Val Cys Leu Gln Ile Gly Tyr  
180 185 190  
Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg  
195 200 205  
Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu  
210 215 220  
Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala  
225 230 235 240  
Pro Val Ala Ala Ala Thr Thr Ala Ala Pro Ala Ala Ala Ala Pro  
245 250 255  
Ala Lys Val Glu Ala Lys Glu Glu Ser Glu Glu Ser Asp Glu Asp Met  
260 265 270  
Gly Phe Gly Leu Phe Asp  
275

<210> 11382  
<211> 1893  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (56).. (1663)

<400> 11382  
agaggaggat gacgaggacg aggatgagga tgaagatgaa attgaaccag cagcgatgaa 60  
agcagcagct gctgcccctg cctcagagga tgaggacgat gaggatgacg aagatgatga 120  
ggatgacgat gacgatgagg aagatgactc tgaagaagaa gctatggaga ctacaccagc 180  
caaaggaaaag aaagctgcaa aagttgttcc tgtgaaagcc aagaacgtgg ctgaggatga 240  
agatgaagaa gaggatgatg aggacgagga tgacgacgac gacgaagatg atgaagatga 300  
tgatgatgaa gatgatgagg aggaggaaga agaggaggag gaagagcctg tcaaagaagc 360  
acctggaaaa cgaaagaagg aaatggccaa acagaaagca gtcctgaag ccaagaaaca 420  
gaaagtggaa ggcacagaac cgactacggc tttcaatctc tttgttggaa acctaaactt 480  
taacaaatct gtcctgaat taaaaactgg tatcagcgat gtttttgcta aaaatgatct 540  
tgctgttttg gatgtcagaa ttggtatgac taggaaattt ggttatgtgg attttgaatc 600  
tgctgaagac ctggagaaaag cgttggaaact cactggtttg aaagtctttg gcaatgaaat 660  
taaactagag aaaccaaag gaaaggacag taagaaagag cgagatgcca gaacactttt 720  
ggctaaaaat ctcccttaca aagtcactca ggatgaattg aaagaagtgt ttgaagatgc 780  
tgcggagatc agattagtca gcaaggatgg gaaaagtaaa gggattgctt atattgaatt 840  
taagacagaa gctgatgcag agaaaacctt tgaagaaaag cagggaacag agatcgatgg 900  
gcgatctatt tccctgtact atactggaga gaaaggtcaa aatcaagact atagaggtgg 960

09629469.072300

```

aaagaatagc acttggagtg gtgaatcaaa aactctgggt ttaagcaacc tctcctacag 1020
tgcaacagaa gaaactcttc aggaagtatt tgagaaagca acttttatca aagtaccca 1080
gaaccaaata ggcaaataa aagggtatgc atttatagag ttgtcttcac tcgaagacgc 1140
taaagaagct ttaaattcct gtaataaaa ggaaattgag ggcagagcaa tcaggctgga 1200
gttgcaagga cccaggggat cactaatgc cagaagccag ccatccaaaa ctctgtttgt 1260
caaaggcctg tctgaggata ccactgaaga gacattaaag gagtcatttg acggctccgt 1320
tcgggcaagg atagtactg accgggaaac tgggtcctcc aaagggtttg gttttgtaga 1380
cttcaacagt gaggaggatg ccaaagctgc caaggaggcc atggaagacg gtgaaattga 1440
tggaataaaa gttaccttgg actgggocaa acctaagggt gaagggtggc tcgggggtcg 1500
tggtggaggc agaggcggct ttggaggacg aggtgggtgg agaggaggcc gaggaggatt 1560
tggtggcaga ggccggggag gctttggagg gcgaggaggc ttccgaggag gcagaggagg 1620
aggaggtgac cacaagccac aaggaaagaa gacgaagttt gaatagcttc tgtccctctg 1680
ctttcccttt tccatttgaa agaaaggact ctggggtttt tactgttacc tgatcaatga 1740
cagagccttc tgaggacatt ccaagacagt atacagtcct gtggtctcct tggaaatccg 1800
tctagttaac atttcaaggg caataccgtg ttggttttga ctggatattc atataaactt 1860
tttaaagagt tgagtgatag agctaaaaaa aag                                     1893

```

<210> 11383  
 <211> 536  
 <212> PRT  
 <213> Homo sapiens

<400> 11383

Met	Lys	Ala	Ala	Ala	Ala	Pro	Ala	Ser	Glu	Asp	Glu	Asp	Asp	Glu
1			5					10					15	
Asp	Asp	Glu	Asp	Asp	Glu	Asp	Asp	Asp	Asp	Glu	Glu	Asp	Asp	Ser
		20				25						30		
Glu	Glu	Glu	Ala	Met	Glu	Thr	Thr	Pro	Ala	Lys	Gly	Lys	Lys	Ala
		35				40						45		
Lys	Val	Val	Pro	Val	Lys	Ala	Lys	Asn	Val	Ala	Glu	Asp	Glu	Asp
	50					55				60				
Glu	Glu	Asp	Asp	Glu	Asp	Glu	Asp	Asp	Asp	Asp	Glu	Asp	Asp	Glu
65					70				75				80	
Asp	Asp	Asp	Asp	Glu	Asp	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu
			85					90					95	
Glu	Pro	Val	Lys	Glu	Ala	Pro	Gly	Lys	Arg	Lys	Lys	Glu	Met	Ala
			100					105					110	
Gln	Lys	Ala	Ala	Pro	Glu	Ala	Lys	Lys	Gln	Lys	Val	Glu	Gly	Thr
		115					120					125		
Pro	Thr	Thr	Ala	Phe	Asn	Leu	Phe	Val	Gly	Asn	Leu	Asn	Phe	Asn
		130				135					140			
Ser	Ala	Pro	Glu	Leu	Lys	Thr	Gly	Ile	Ser	Asp	Val	Phe	Ala	Lys
145					150					155				160
Asp	Leu	Ala	Val	Val	Asp	Val	Arg	Ile	Gly	Met	Thr	Arg	Lys	Phe
			165						170				175	
Tyr	Val	Asp	Phe	Glu	Ser	Ala	Glu	Asp	Leu	Glu	Lys	Ala	Leu	Glu
			180					185					190	

09629469.072800





<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (38).. (811)

<400> 11384  
 aaaaaaaaga atagtagagg atcctgaatc cctaaacatg aaaaacattc tatctattct 60  
 tcatacttac tcttctctca atcatgtcta caaatgccag aacaaagaac agttcgtgga 120  
 agttatggct agtgctctga ctgggttatct tcacactatt tcttctgaaa acttattgga 180  
 tgcagtatat tcatttttgct tgatgaatta ctttcccctg gctcctttta atcagcttct 240  
 gcaaaaagac atcatcagtg agctgctgac atcagatgac atgaagaatg cttacaagct 300  
 gcatactttg gatacttgct taaaacttga tgatactgtc tatctgaggg acatagcctt 360  
 gtcactccca cagctgccgc gggagctgcc atcgtcacat acaaatgcaa aggtggcaga 420  
 ggtgctgagc agccttctgg gaggtgaagg acacttctca aaggatgtgc acttgccaca 480  
 caattatcat attgattttg aaatcagaat ggacactaac aggaatcaag tgctaccact 540  
 ttctgatgtg gatacaactt ctgctacaga tattcaaaga gtagctgtgc tatgtgtttc 600  
 cagatctgct tattgttttg gttcaagcca cccagagga ttcttctgta tgaaaatgcg 660  
 gcatttgaat gcaatgggtt ttcatgtgat cttggtcaat aactgggaga tggacaaact 720  
 agagatggaa gatgcagtca cttttttgaa gactaaaatc tattcagtag aagctcttcc 780  
 tgttgctgct gtaaatgtgc aaagcacaca ataaagtga aatcaacctt ttcattattag 840  
 gagacatgca tttgtaaaaa ttaataaaga tgacaagtca gttgtcaatg gaattgagct 900  
 atctgctaag acaaaaaatg ttacctcagt tcactattaa aattaatttt aggagtggaa 960  
 gaaatgttgt tactgccatt taaaaatatg ctgagaaaaat tccagaaggg ttatttttcc 1020  
 aaccacacct attccctcta gtgccagat atttgatttg tgagctgtac gtttcacctt 1080  
 ttcattcttg atctactaaa aactggtttc ttagttgtga ggtgtcacag gcaggttgat 1140  
 gtgggtagta gtccttgtct ttggaatctg aatatttata ctctgtctct aagctgttct 1200  
 aagacttggg gttatgcctt taaatcattt tcaagcattg gccaaaataat aattggacaa 1260  
 agttctaaag ttgtcaagtg tgtaagaatt agtgaggtag ctgttgaaaa tgagtgagga 1320  
 tggatattgt atttgtaata agcactgcag gtagagatat ttcattgggtt ataataagag 1380  
 aaacacagat gagatgtaga tggtaaggag tcttactgtt gttgggggtcc ttcctttctc 1440  
 tttctttttt ccccttacc cctccacaa tttcatgaag tctttgaaat taaatatata 1500  
 gctgaattgt gttgtg 1516

<210> 11385  
<211> 258  
<212> PRT  
<213> Homo sapiens

<400> 11385  
 Met Lys Asn Ile Leu Ser Ile Leu His Thr Tyr Ser Ser Leu Asn His  
 1 5 10 15  
 Val Tyr Lys Cys Gln Asn Lys Glu Gln Phe Val Glu Val Met Ala Ser  
 20 25 30  
 Ala Leu Thr Gly Tyr Leu His Thr Ile Ser Ser Glu Asn Leu Leu Asp  
 35 40 45

09629459.072800

-4851/13211-

Ala	Val	Tyr	Ser	Phe	Cys	Leu	Met	Asn	Tyr	Phe	Pro	Leu	Ala	Pro	Phe
50						55					60				
Asn	Gln	Leu	Leu	Gln	Lys	Asp	Ile	Ile	Ser	Glu	Leu	Leu	Thr	Ser	Asp
65					70					75					80
Asp	Met	Lys	Asn	Ala	Tyr	Lys	Leu	His	Thr	Leu	Asp	Thr	Cys	Leu	Lys
				85					90					95	
Leu	Asp	Asp	Thr	Val	Tyr	Leu	Arg	Asp	Ile	Ala	Leu	Ser	Leu	Pro	Gln
			100					105					110		
Leu	Pro	Arg	Glu	Leu	Pro	Ser	Ser	His	Thr	Asn	Ala	Lys	Val	Ala	Glu
		115				120						125			
Val	Leu	Ser	Ser	Leu	Leu	Gly	Gly	Glu	Gly	His	Phe	Ser	Lys	Asp	Val
130						135					140				
His	Leu	Pro	His	Asn	Tyr	His	Ile	Asp	Phe	Glu	Ile	Arg	Met	Asp	Thr
145				150						155					160
Asn	Arg	Asn	Gln	Val	Leu	Pro	Leu	Ser	Asp	Val	Asp	Thr	Thr	Ser	Ala
				165					170					175	
Thr	Asp	Ile	Gln	Arg	Val	Ala	Val	Leu	Cys	Val	Ser	Arg	Ser	Ala	Tyr
			180					185						190	
Cys	Leu	Gly	Ser	Ser	His	Pro	Arg	Gly	Phe	Leu	Ala	Met	Lys	Met	Arg
		195				200						205			
His	Leu	Asn	Ala	Met	Gly	Phe	His	Val	Ile	Leu	Val	Asn	Asn	Trp	Glu
210					215						220				
Met	Asp	Lys	Leu	Glu	Met	Glu	Asp	Ala	Val	Thr	Phe	Leu	Lys	Thr	Lys
225					230					235					240
Ile	Tyr	Ser	Val	Glu	Ala	Leu	Pro	Val	Ala	Ala	Val	Asn	Val	Gln	Ser
				245					250					255	
Thr	Gln														

<210> 11386  
 <211> 1608  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (140)..(1252)

<400> 11386  
 gagtgcaaga tcgtttttctc agtggttggtg gaagttgcoo catogcaggc agatgttggg 60  
 gctttgtccg aacagctccc ctctgccagc ttctgtagat aagggttaaa aactaatatt 120  
 tatatgacag aagaaaaaga tgtcattccg taaagtaaac atcatcatct tggctcctggc 180  
 tgttgctctc ttcttactgg ttttgacca taacttctc agcttgagca gtttgtaag 240  
 gaatgaggtt acagattcag gaatcgtagg gcctcaacct atagactttg tcccaaattgc 300  
 tctccgacat gcagtagatg ggagacaaga ggagattcoo gtggtcatcg ctgcatctga 360  
 agacaggott gggggggcca ttgcagctat aaacagcatt cagcacaaca ctgcgtccaa 420  
 tgtgattttc tacattgtta ctctcaacaa tacagcagac catctccggc cctggctcaa 480

09629469.072300

```

cagtgtattcc ctgaaaagca tcagatacaa aattgtcaat tttgacccta aacttttggga 540
aggaaaagta aaggaggatc ctgaccaggg ggaatccatg aaacctttta cctttgcaag 600
gttctacttg ccaattctgg ttcccagcgc aaagaaggcc atatacatgg atgatgatgt 660
aattgtgcaa ggtgatattc ttgcccttta caatacagca ctgaagccag gacatgcagc 720
tgcattttca gaagattgtg attcagcctc tactaaagtt gtcacccgtg gagcaggaaa 780
ccagtacaat tacattggct atcttgacta taaaaaggaa agaattcgtg agctttccat 840
gaaagccagc acttgctcat ttaatcctgg agtttttgtt gcaaacctga cggaatggaa 900
acgacagaat ataactaacc aactggaaaa atggatgaaa ctcaatgtag aagagggact 960
gtatagcaga accctggctg gtagcatcac aacacctcct ctgcttatcg tattttatca 1020
acagcactct accatcgatc ctatgtggaa tgtccgccac cttgggtcca gtgctggaaa 1080
acgatattca cctcagtttg taaaggctgc caagttaact cattggaatg gacatttgaa 1140
gccatgggga aggactgctt catatactga tgtttgggaa aaatgggata ttccagaccc 1200
aacaggcaaa ttcaacctaa tccgaagata taccgagatc tcaaacataa agtgaacag 1260
aatttgaact gtaagcaagc atttctcagg aagtcctgga agatagcatg cgtggggaagt 1320
aacagttgct aggcttcaat gcctatcggg agcaagccat ggaaaaagat gtgtcagcta 1380
ggtaaagatg acaaaactgcc ctgtctggca gtcagcttcc cagacagact atagactata 1440
aatatgtctc catctgcctt accaagtgtt ttcttactac aatgctgaat gactggaaag 1500
aagaactgat atggctagtt cagctagctg gtacagataa ttcaaaactg ctgttggttt 1560
taattttgta acctgtggcc tgatctgtaa ataaaactta catttttc 1608

```

<210> 11387  
 <211> 371  
 <212> PRT  
 <213> Homo sapiens

<400> 11387

Met	Ser	Phe	Arg	Lys	Val	Asn	Ile	Ile	Ile	Leu	Val	Leu	Ala	Val	Ala
1				5					10					15	
Leu	Phe	Leu	Leu	Val	Leu	His	His	Asn	Phe	Leu	Ser	Leu	Ser	Ser	Leu
			20					25					30		
Leu	Arg	Asn	Glu	Val	Thr	Asp	Ser	Gly	Ile	Val	Gly	Pro	Gln	Pro	Ile
		35					40					45			
Asp	Phe	Val	Pro	Asn	Ala	Leu	Arg	His	Ala	Val	Asp	Gly	Arg	Gln	Glu
	50				55					60					
Glu	Ile	Pro	Val	Val	Ile	Ala	Ala	Ser	Glu	Asp	Arg	Leu	Gly	Gly	Ala
65					70					75					80
Ile	Ala	Ala	Ile	Asn	Ser	Ile	Gln	His	Asn	Thr	Arg	Ser	Asn	Val	Ile
			85						90					95	
Phe	Tyr	Ile	Val	Thr	Leu	Asn	Asn	Thr	Ala	Asp	His	Leu	Arg	Ser	Trp
			100					105					110		
Leu	Asn	Ser	Asp	Ser	Leu	Lys	Ser	Ile	Arg	Tyr	Lys	Ile	Val	Asn	Phe
		115					120					125			
Asp	Pro	Lys	Leu	Leu	Glu	Gly	Lys	Val	Lys	Glu	Asp	Pro	Asp	Gln	Gly
	130					135				140					
Glu	Ser	Met	Lys	Pro	Leu	Thr	Phe	Ala	Arg	Phe	Tyr	Leu	Pro	Ile	Leu
145					150					155					160
Val	Pro	Ser	Ala	Lys	Lys	Ala	Ile	Tyr	Met	Asp	Asp	Asp	Val	Ile	Val

09629469.072300

<210> 11388  
<211> 2193  
<212> DNA  
<213> Homo sapiens

<220> .  
 <221> CDS  
 <222> (11).. (1753)

gggcgccatc	atggacgagg	actactacgg	gagcgcggcc	gagtggggcg	acgaggctga	60
cggcggccag	caggaggatg	attctggaga	aggagaggat	gatgcggagg	ttcagcaaga	120
atgcctgcat	aaattttcca	cccgggatta	tatcatggaa	ccctccatct	tcaacactct	180
gaagaggtat	tttcaggcag	gagggtctcc	agagaatgtt	atccagctct	tatctgaaaa	240
ctacaccgct	gtggcccaga	ctgtgaacct	gctggccgag	tggctcattc	agacaggtgt	300
tgagccagtg	caggttcagg	aaactgtgga	agatcacttg	aagagtttgc	tgatcaaaca	360
ttttgacccc	cgcaaagcag	attctatttt	tactgaagaa	ggagagaccc	cagcgtggct	420
ggaacagatg	attgcacata	ccacgtggcg	ggaccttttt	tataaactgg	ctgaagccca	480
tccagactgt	ttgatgctga	acttcaccgt	taagcttatt	tctgacgcag	ggtaccaggg	540

```

ggagatcacc agtgtgtcca cagcatgcc a gcagctagaa gtgttctcga gagtgtctccg 600
gacctctcta gctacaattt tagatggagg agaagaaaaa cttgaaaaaa atctccctga 660
gtttgccaag atggtgtgcc acgggggagca cacgtacctg ttgtcccagg ccatgatgtc 720
cgtgctggcc caggaggagc aggggggctc cgctgtgcgc aggatcgccc aggaagtgc 780
gcgctttgcc caggagaaag gtcattgacgc cagtcagatc acactagccc tgggcacagc 840
tgcttcctac cccagggcct gccaggctct cggggccatg ctgtccaaag gagccctgaa 900
ccctgctgac atcaccgtcc tgttcaagat gttcacaagc atggaccctc ctccggttga 960
acttatccgc gttccagcct tcctggacct gttcatgcag tcaactctta aaccaggggc 1020
tcggatcaac caggaccaca agcacaataa catccacatc ttggcgtacg cagcaagcgt 1080
ggttgagacc tggaagaaga acaagcgagt gagcatcaat aaagatgagc tgaagtcaac 1140
gtcaaaaagct gtcgaaaccg ttcacaattt gtgttgcaac gagaacaaag gggcctctga 1200
actagtggca gaattgagca cactttatca gtgtattagg ttccagtggt tagcaatggg 1260
tgtgtgaag aggggtggatt ggactgtatc agaaccaagg tactttcagc tgcagactga 1320
ccatacccct gtccacctgg cgttgctgga tgagatcagc acctgccacc agctcctgca 1380
ccccaggctc ctgcagctgc ttgttaagct ttttgagact gagcactccc agctggacgt 1440
gatggagcag cttgagttga agaagacact gccggacagg atggttcacc tgctgagtcg 1500
aggttatgta cttcctgttg tcagttacat ccgaaagtgt ctggagaagc tggacactga 1560
catttcactc attcgtatc ttgtcactga ggtgctggac gtcattgtc ctccttatac 1620
ctctgacttc gtgcaacttt tcctcccat cctggagaat gacagcatcg caggtaccat 1680
caaaacggaa ggcgagcatg tcctgtgac ggagtttata gtcactgca aatctaactt 1740
catcatggtg aactaattta gagcatcctc cagagctgaa gcagaacatt ccagaaccgc 1800
ttgtggaaaa accctttcaa gaagctgttt taagaggctc gggcagcgtc ttgaaaatgg 1860
gcaccgctgg gaggaggtgg atgacttctt taaaaaggaa aatggtagca gcttcagtga 1920
gaaactgccc ttacaaacag tcctttctct gctgtcaatc caatactgct cccaaatcct 1980
gttttcagtg ttcatctccc tcaaggcagg cgctgggctc ccacgacccc tcaggacaga 2040
tctggccgtc agccgcgggc cgctgggaac tccactcggg gaactccttt ccaagctgac 2100
ctcagttttc tcacaagaac ccagttagct gatgttttat tgtaattgtc ttaatttgct 2160
aagaacaagt aataagtaaa tttttaaaaa gcc 2193

```

<210> 11389  
 <211> 581  
 <212> PRT  
 <213> Homo sapiens

<400> 11389  
 Met Asp Glu Asp Tyr Tyr Gly Ser Ala Ala Glu Trp Gly Asp Glu Ala  
 1 5 10 15  
 Asp Gly Gly Gln Gln Glu Asp Asp Ser Gly Glu Gly Glu Asp Asp Ala  
 20 25 30  
 Glu Val Gln Gln Glu Cys Leu His Lys Phe Ser Thr Arg Asp Tyr Ile  
 35 40 45  
 Met Glu Pro Ser Ile Phe Asn Thr Leu Lys Arg Tyr Phe Gln Ala Gly  
 50 55 60  
 Gly Ser Pro Glu Asn Val Ile Gln Leu Leu Ser Glu Asn Tyr Thr Ala  
 65 70 75 80  
 Val Ala Gln Thr Val Asn Leu Leu Ala Glu Trp Leu Ile Gln Thr Gly  
 85 90 95

09629469.072300

Val	Glu	Pro	Val	Gln	Val	Gln	Glu	Thr	Val	Glu	Asp	His	Leu	Lys	Ser			
			100					105					110					
Leu	Leu	Ile	Lys	His	Phe	Asp	Pro	Arg	Lys	Ala	Asp	Ser	Ile	Phe	Thr			
		115					120					125						
Glu	Glu	Gly	Glu	Thr	Pro	Ala	Trp	Leu	Glu	Gln	Met	Ile	Ala	His	Thr			
	130					135					140							
Thr	Trp	Arg	Asp	Leu	Phe	Tyr	Lys	Leu	Ala	Glu	Ala	His	Pro	Asp	Cys			
145					150					155					160			
Leu	Met	Leu	Asn	Phe	Thr	Val	Lys	Leu	Ile	Ser	Asp	Ala	Gly	Tyr	Gln			
			165						170					175				
Gly	Glu	Ile	Thr	Ser	Val	Ser	Thr	Ala	Cys	Gln	Gln	Leu	Glu	Val	Phe			
		180						185					190					
Ser	Arg	Val	Leu	Arg	Thr	Ser	Leu	Ala	Thr	Ile	Leu	Asp	Gly	Gly	Glu			
		195					200					205						
Glu	Asn	Leu	Glu	Lys	Asn	Leu	Pro	Glu	Phe	Ala	Lys	Met	Val	Cys	His			
	210					215					220							
Gly	Glu	His	Thr	Tyr	Leu	Phe	Ala	Gln	Ala	Met	Met	Ser	Val	Leu	Ala			
225					230					235					240			
Gln	Glu	Glu	Gln	Gly	Gly	Ser	Ala	Val	Arg	Arg	Ile	Ala	Gln	Glu	Val			
			245						250					255				
Gln	Arg	Phe	Ala	Gln	Glu	Lys	Gly	His	Asp	Ala	Ser	Gln	Ile	Thr	Leu			
		260					265						270					
Ala	Leu	Gly	Thr	Ala	Ala	Ser	Tyr	Pro	Arg	Ala	Cys	Gln	Ala	Leu	Gly			
		275					280					285						
Ala	Met	Leu	Ser	Lys	Gly	Ala	Leu	Asn	Pro	Ala	Asp	Ile	Thr	Val	Leu			
	290					295					300							
Phe	Lys	Met	Phe	Thr	Ser	Met	Asp	Pro	Pro	Pro	Val	Glu	Leu	Ile	Arg			
305					310					315					320			
Val	Pro	Ala	Phe	Leu	Asp	Leu	Phe	Met	Gln	Ser	Leu	Phe	Lys	Pro	Gly			
			325						330					335				
Ala	Arg	Ile	Asn	Gln	Asp	His	Lys	His	Lys	Tyr	Ile	His	Ile	Leu	Ala			
		340						345					350					
Tyr	Ala	Ala	Ser	Val	Val	Glu	Thr	Trp	Lys	Lys	Asn	Lys	Arg	Val	Ser			
		355					360						365					
Ile	Asn	Lys	Asp	Glu	Leu	Lys	Ser	Thr	Ser	Lys	Ala	Val	Glu	Thr	Val			
	370					375					380							
His	Asn	Leu	Cys	Cys	Asn	Glu	Asn	Lys	Gly	Ala	Ser	Glu	Leu	Val	Ala			
385					390					395					400			
Glu	Leu	Ser	Thr	Leu	Tyr	Gln	Cys	Ile	Arg	Phe	Pro	Val	Val	Ala	Met			
			405						410					415				
Gly	Val	Leu	Lys	Arg	Val	Asp	Trp	Thr	Val	Ser	Glu	Pro	Arg	Tyr	Phe			
		420						425					430					
Gln	Leu	Gln	Thr	Asp	His	Thr	Pro	Val	His	Leu	Ala	Leu	Leu	Asp	Glu			
		435					440					445						
Ile	Ser	Thr	Cys	His	Gln	Leu	Leu	His	Pro	Gln	Val	Leu	Gln	Leu	Leu			
	450					455					460							
Val	Lys	Leu	Phe	Glu	Thr	Glu	His	Ser	Gln	Leu	Asp	Val	Met	Glu	Gln			
465					470					475					480			

09629469.072800

Leu Glu Leu Lys Lys Thr Leu Pro Asp Arg Met Val His Leu Leu Ser  
485 490 495  
Arg Gly Tyr Val Leu Pro Val Val Ser Tyr Ile Arg Lys Cys Leu Glu  
500 505 510  
Lys Leu Asp Thr Asp Ile Ser Leu Ile Arg Tyr Phe Val Thr Glu Val  
515 520 525  
Leu Asp Val Ile Ala Pro Pro Tyr Thr Ser Asp Phe Val Gln Leu Phe  
530 535 540  
Leu Pro Ile Leu Glu Asn Asp Ser Ile Ala Gly Thr Ile Lys Thr Glu  
545 550 555 560  
Gly Glu His Val Pro Val Thr Glu Phe Ile Ala His Cys Lys Ser Asn  
565 570 575  
Phe Ile Met Val Asn  
580

<210> 11390  
<211> 1934  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (118).. (1560)

<400> 11390  
ggaccaagat ggcgggcgccc tgtgagggac aagcgtttgc cgtaggggtt gaaaagaatt 60  
ggggtgcagt agttcgcctcc ccagaaggga cccccagaa aatccggcag ctgatagatg 120  
aggggattgc cccggaagag ggaggcgttg acgcaaccac acccgcttga ggctctctat 180  
gaatctctga gactcttaga gaaggacacg tctgccacat cccagtcagt taatggatca 240  
ccccaagcgg aacaaccttc attggaatct acaagcaaag aagccttctt tagcagagtg 300  
gaaacatttt cttctttgaa atgggcaggt aagccctttg agctgtctcc actcgtctgt 360  
gcaaaatatg gctgggtcac agtggaatgt gatatgctca agtgccttag ctgtcaagct 420  
tttctctgtg ccagtttaca accagctttt gactttgaca gatataagca acgatgtgct 480  
gagctgaaga aagccttggtg tactgcccat gagaagttct gtttctggcc agacagccca 540  
tccccagacc gatttgggat gttgcccctg gatgagcctg ctattcttgt tagtgaattc 600  
ctagatcggt ttcaaagcct ttgtcacttg gacctccagc ttcttccct aaggccggag 660  
gacttgaaaa ctatgtgctt gacagaggac aagatcagtc ttctctaca ctgtcttgaa 720  
gatgaacttg atcaccgaac tgatgagaga aaaactacaa tcaaattagg ctacagacatc 780  
caagtccacg tcactgcctg tattctctct gtgtgtggct gggcgtgtag ttctctttg 840  
gaatccatgc agctctccct gataacatgt tcgcaatgta tgaggaaggt ggggctcttg 900  
ggcttccagc agattgaatc gtccatgact gacctggatg catcctttgg cctgaccagc 960  
tccccaatcc caggccttga ggggcgacca gagcgcttac ctotggtgcc tgaatctcct 1020  
cggaggatga tgaccggag ccaggatgcc actttctccc caggctcaga gcaggctgaa 1080  
aagagccctg gtcccattgt ctctcgaact cggagctggg actcttccag tcctgttgac 1140  
cgtcctgagc cagaggctgc tagccccacc accagaactc gccagtgac ccgaagcatg 1200  
ggaacaggag acaccctgg cctggaggta ccatctagcc ctotgaggaa agccaagcga 1260  
gctcgcctct gctcctccag cagttcggac acatcttccc gaagcttctt tgatcccacc 1320

09629469.072800

```

tctcagcata gagactggtg cccttgggtg aatatcacac ttggcaaaga aagcagggag 1380
aatggtggaa ctgaaccaga tgccagcgcc ccagcagagc caggctggaa agcagtgtctg 1440
accatcctct tggcgcaaa acagtctagc cagccagctg aaacggactc catgagtctc 1500
tctgagaaat caaggaaagt attccgaata tttcggcagt gggaaatctct gtgctcatgc 1560
tgaagatact ccagcgccct cctggagata gctggaatga gagtgacttt ttgaaaaatt 1620
aaggctgagt tcctttcggg cagctgacac taagtttttc ctgttctggg ttaatcataa 1680
ggagccccct gccatagcaa aggcagttag tgtcaactat ctgcatctgg ctgagagaga 1740
cccgtttcct ttcagggatg tggacagggt aagggcagca agcatggttc tgttaaagga 1800
gtgtgggggtt aacagactag aaggaagact aaggacctga ccacccattt cagcatcttc 1860
aatgtggagc agtgttctga ggactcttct atcctaggac tatgacagtg tgtattaata 1920
aaatatattgc taag 1934

```

<210> 11391  
 <211> 481  
 <212> PRT  
 <213> Homo sapiens

<400> 11391

Met	Arg	Gly	Leu	Pro	Arg	Lys	Arg	Glu	Ala	Trp	Thr	Gln	Pro	His	Pro	1	5	10	15
Leu	Glu	Ala	Leu	Tyr	Glu	Ser	Leu	Arg	Val	Leu	Glu	Lys	Asp	Thr	Ser	20	25	30	
Ala	Thr	Ser	Gln	Ser	Val	Asn	Gly	Ser	Pro	Gln	Ala	Glu	Gln	Pro	Ser	35	40	45	
Leu	Glu	Ser	Thr	Ser	Lys	Glu	Ala	Phe	Phe	Ser	Arg	Val	Glu	Thr	Phe	50	55	60	
Ser	Ser	Leu	Lys	Trp	Ala	Gly	Lys	Pro	Phe	Glu	Leu	Ser	Pro	Leu	Val	65	70	75	80
Cys	Ala	Lys	Tyr	Gly	Trp	Val	Thr	Val	Glu	Cys	Asp	Met	Leu	Lys	Cys	85	90	95	
Ser	Ser	Cys	Gln	Ala	Phe	Leu	Cys	Ala	Ser	Leu	Gln	Pro	Ala	Phe	Asp	100	105	110	
Phe	Asp	Arg	Tyr	Lys	Gln	Arg	Cys	Ala	Glu	Leu	Lys	Lys	Ala	Leu	Cys	115	120	125	
Thr	Ala	His	Glu	Lys	Phe	Cys	Phe	Trp	Pro	Asp	Ser	Pro	Ser	Pro	Asp	130	135	140	
Arg	Phe	Gly	Met	Leu	Pro	Leu	Asp	Glu	Pro	Ala	Ile	Leu	Val	Ser	Glu	145	150	155	160
Phe	Leu	Asp	Arg	Phe	Gln	Ser	Leu	Cys	His	Leu	Asp	Leu	Gln	Leu	Pro	165	170	175	
Ser	Leu	Arg	Pro	Glu	Asp	Leu	Lys	Thr	Met	Cys	Leu	Thr	Glu	Asp	Lys	180	185	190	
Ile	Ser	Leu	Leu	Leu	His	Leu	Leu	Glu	Asp	Glu	Leu	Asp	His	Arg	Thr	195	200	205	
Asp	Glu	Arg	Lys	Thr	Thr	Ile	Lys	Leu	Gly	Ser	Asp	Ile	Gln	Val	His	210	215	220	
Val	Thr	Ala	Cys	Ile	Leu	Ser	Val	Cys	Gly	Trp	Ala	Cys	Ser	Ser	Ser				

09629469.072800



225					230					235				240
Leu	Glu	Ser	Met	Gln	Leu	Ser	Leu	Ile	Thr	Cys	Ser	Gln	Cys	Met Arg
				245					250					255
Lys	Val	Gly	Leu	Trp	Gly	Phe	Gln	Gln	Ile	Glu	Ser	Ser	Met	Thr Asp
			260					265					270	
Leu	Asp	Ala	Ser	Phe	Gly	Leu	Thr	Ser	Ser	Pro	Ile	Pro	Gly	Leu Glu
		275					280					285		
Gly	Arg	Pro	Glu	Arg	Leu	Pro	Leu	Val	Pro	Glu	Ser	Pro	Arg	Arg Met
	290				295						300			
Met	Thr	Arg	Ser	Gln	Asp	Ala	Thr	Phe	Ser	Pro	Gly	Ser	Glu	Gln Ala
305				310					315					320
Glu	Lys	Ser	Pro	Gly	Pro	Ile	Val	Ser	Arg	Thr	Arg	Ser	Trp	Asp Ser
			325					330					335	
Ser	Ser	Pro	Val	Asp	Arg	Pro	Glu	Pro	Glu	Ala	Ala	Ser	Pro	Thr Thr
		340					345					350		
Arg	Thr	Arg	Pro	Val	Thr	Arg	Ser	Met	Gly	Thr	Gly	Asp	Thr	Pro Gly
	355					360					365			
Leu	Glu	Val	Pro	Ser	Ser	Pro	Leu	Arg	Lys	Ala	Lys	Arg	Ala	Arg Leu
	370				375					380				
Cys	Ser	Ser	Ser	Ser	Ser	Asp	Thr	Ser	Ser	Arg	Ser	Phe	Phe	Asp Pro
385				390				395						400
Thr	Ser	Gln	His	Arg	Asp	Trp	Cys	Pro	Trp	Val	Asn	Ile	Thr	Leu Gly
			405				410					415		
Lys	Glu	Ser	Arg	Glu	Asn	Gly	Gly	Thr	Glu	Pro	Asp	Ala	Ser	Ala Pro
		420				425					430			
Ala	Glu	Pro	Gly	Trp	Lys	Ala	Val	Leu	Thr	Ile	Leu	Leu	Ala	His Lys
	435				440						445			
Gln	Ser	Ser	Gln	Pro	Ala	Glu	Thr	Asp	Ser	Met	Ser	Leu	Ser	Glu Lys
	450			455				460						
Ser	Arg	Lys	Val	Phe	Arg	Ile	Phe	Arg	Gln	Trp	Glu	Ser	Leu	Cys Ser
465			470				475						480	
Cys														

<210> 11392  
 <211> 1787  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (125).. (949)

<400> 11392  
 cggaggtgac ggagcggcgg ccccgcccg tgcgctggag gtogaagctt ccaggtagcg 60  
 gcccgagag cctgacccag gctctgggca tcctgagccc aagtccccca cactcagtgc 120  
 agtgatgagt gcggaagtga aggtgacagg gcagaaccag gagcaatttc tgctcctagc 180

000220.69462960

009270" 69462960

```

caagtcggcc aagggggcag cgctggccac actcatccat caggtgctgg aggcccctgg 240
tgtctacgtg tttggagaac tgctggacat gcccaatgtt agagagctgg ctgagagtga 300
ctttgcctct accttcggc tgctcacagt gtttgcttat gggacatacg ctgactactt 360
agctgaagcc cggaatcttc ctccactaac agaggctcag aagaataagc ttcgacacct 420
ctcagttgtc accctggctg cttaaagtaaa gtgtatccca tatgcagtgt tgctggaggc 480
tcttgccctg cgtaatgtgc ggcagctgga agacctgtg attgaggctg tgtatgctga 540
cgtgcttcgt ggctccctgg accagcgcaa ccagcggctc gaggttgact acagcatcgg 600
gcgggacatc cagcgccagg acctcagtc cattgccga accctgcagg aatggtgtgt 660
gggctgtgag gtctgtctgt caggcattga ggagcagggt agccgtgcc accaacacaa 720
ggagcagcag ctgggcctga agcagcagat tgagagtga gttgccaaacc tttaaagaaac 780
cattaaagtt acgacggcag cagcagccgc agccacatct caggaccctg agcaacactt 840
gactgagctg aggggaaccag ctccctggcac caaccagcgc cagcccagca agaaagcctc 900
aaagggcaag gggctccgag ggagcgccaa gatttggtcc aagtcgaatt gaaaggactg 960
tcgtttcctc cctggggatg tgggggtcca gctgcctgcc tgccctctag ggtcctcag 1020
agagccttct gtgccctgg ccagctgata atcctagggt catgaccctt cacctcccct 1080
aaccccaaac atagatcaca ccttctctag ggaggaggca aatgtaggtc atgtttttgt 1140
tggtactttc tgttttttgt gacttcatgt gttccattgc tcccgcctgc catgctctct 1200
cccttgtttc cttaagagct cagcatctgt cctgttcat tacatgtcat tgagttagtg 1260
ggtagccctg atgggggtcg ctctgtcttg agcataaacc acaggcgttt tttctgccac 1320
cccatccctg catgcctgat cccagttcc tataccctac cctgacctt ttgagcagcc 1380
tctgaagagc catagggccc ccacctttac tcacaccctg agaattctgg gagctagtct 1440
gccatgccag gactcactgg acatgttcat cctagaatcc tgtcacacta cagtcatttc 1500
ttttcctctc tctggccctt gggctcctggg aatgctgctg cttcaacccc agagcctaag 1560
aatggcagcc gtttcttaac atgttgagag atgattcttt cttggccctg gccatctcgg 1620
gaagcttgat ggcaatcctg gaagggttta atctcctttt gtgagtttgg tggggaaggg 1680
aagggtatat agattgtatt aaaaaaaaaa aagggtatata tgcatatatc tatatataat 1740
atgacgcaga aataaatcta tgagaaatct atctacaaac taccctg 1787

```

<210> 11393  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<400> 11393

Met	Ser	Ala	Glu	Val	Lys	Val	Thr	Gly	Gln	Asn	Gln	Glu	Gln	Phe	Leu
1				5				10						15	
Leu	Leu	Ala	Lys	Ser	Ala	Lys	Gly	Ala	Ala	Leu	Ala	Thr	Leu	Ile	His
			20					25					30		
Gln	Val	Leu	Glu	Ala	Pro	Gly	Val	Tyr	Val	Phe	Gly	Glu	Leu	Leu	Asp
		35					40					45			
Met	Pro	Asn	Val	Arg	Glu	Leu	Ala	Glu	Ser	Asp	Phe	Ala	Ser	Thr	Phe
	50					55					60				
Arg	Leu	Leu	Thr	Val	Phe	Ala	Tyr	Gly	Thr	Tyr	Ala	Asp	Tyr	Leu	Ala
65				70					75					80	
Glu	Ala	Arg	Asn	Leu	Pro	Pro	Leu	Thr	Glu	Ala	Gln	Lys	Asn	Lys	Leu
			85					90					95		
Arg	His	Leu	Ser	Val	Val	Thr	Leu	Ala	Ala	Lys	Val	Lys	Cys	Ile	Pro

	100		105		110
Tyr	Ala Val	Leu Leu Glu	Ala Leu Ala	Leu Arg	Asn Val Arg Gln Leu
	115		120		125
Glu	Asp Leu Val	Ile Glu	Ala Val Tyr	Ala Asp Val	Leu Arg Gly Ser
	130		135		140
Leu	Asp Gln Arg	Asn Gln Arg	Leu Glu Val	Asp Tyr Ser	Ile Gly Arg
145		150		155	160
Asp	Ile Gln Arg	Gln Asp Leu	Ser Ala Ile	Ala Arg Thr	Leu Gln Glu
	165		170		175
Trp	Cys Val Gly	Cys Glu Val	Val Leu Ser	Gly Ile Glu	Glu Gln Val
	180		185		190
Ser	Arg Ala Asn	Gln His Lys	Glu Gln Gln	Leu Gly Leu	Lys Gln Gln
	195		200		205
Ile	Glu Ser Glu	Val Ala Asn	Leu Lys Glu	Thr Ile Lys	Val Thr Thr
	210		215		220
Ala	Ala Ala Ala	Ala Thr Ser	Gln Asp Pro	Glu Gln His	Leu Thr
225		230		235	240
Glu	Leu Arg Glu	Pro Ala Pro	Gly Thr Asn	Gln Arg Gln	Pro Ser Lys
	245		250		255
Lys	Ala Ser Lys	Gly Lys Gly	Leu Arg Gly	Ser Ala Lys	Ile Trp Ser
	260		265		270
Lys	Ser Asn				
	275				

<210> 11394  
 <211> 1758  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (150).. (1337)

<400> 11394

cgttcgcgcg	ctgtcgccgc	cgtcgtgcgt	gccgctcggc	ggaggggacg	ggcctgcgtt	60
ctctcctcct	tcttccccgc	ctccagctgc	cggcaggacc	tttctctcgc	tgccgctggg	120
accccgctgc	atcgcccagg	ccgagcacga	tgccccctaa	aaagggaggt	gatggaatta	180
aaccaccccc	aatcattgga	aggtttggaa	cctcactgaa	aattgggtatt	gttggtattgc	240
caaattgctgg	gaaatctact	ttcttcaatg	tgtaaaccaa	tagtcaggct	tcagcagaaa	300
acttcccgtt	ctgcactatt	gatcctaatt	agagcagagt	acctgtgcca	gatgaaaggt	360
ttgactttct	ttgtcaatac	cacaaaccag	caagcaaaat	tcctgccttt	ctaaatgttg	420
tggatattgc	tggccttgtg	aaaggagctc	acaatgggca	gggcctgggg	aatgcttttt	480
tatctcatat	tagtgcctgt	gatggcatct	ttcatctaac	acgtgctttt	gaagatgatg	540
atatcacgca	cgttgaagga	agtgtagatc	ctattcgaga	tatagaaata	atacatgaag	600
agcttcagct	taaagatgag	gaaatgattg	ggcccattat	agataaaacta	gaaaaggttg	660
ctgtgagagg	aggagataaa	aaactaaaac	ctgaatatga	tatcatgtgc	aaagtaaaat	720
cctgggttat	agatcaaaag	aaacctgttc	gotttatatca	tgattggaat	gacaaagaga	780

008220\*69462960

```

ttgaagtgtt gaataaacac ttatTTTTaa cttcaaaacc aatggtctac ttggttaatc 840
tttctgaaaa agactacatt agaaagaaaa acaaattggtt gataaaaatt aaagagtggg 900
tggaacaagta tgaccaggt gcttttgtca ttcttttag tggggccttg gaactcaagt 960
tgcaagaatt gagtgtgag gagagacaga agtatctgga agogaacatg acacaaagt 1020
ctttgccaaa gatcattaag gctgggtttg cagcactcca actagaatac tttttcactg 1080
caggcccaga tgaagtgcgt gcatggacca tcaggaaagg gactaaggct cctcaggctg 1140
caggaaaagat tcacacagat ttgaaaagg gattcattat ggctgaagta atgaaatacg 1200
aagattttta agaggaagg tctgaaaatg cagtcaaggc tgctggaaag tacagacaac 1260
aaggcagaaa ttatattgtt gaagatggag atattatctt cttcaaattt aacacacctc 1320
aacaaccgaa gaagaaataa aatttagtta ttgctcagat aaacatacaa cttccaaaag 1380
gcatctgatt tttaaaaaat taaaatttct gaaaaccaat gcgacaaata aagttgggga 1440
gatgggaatc ttgacaaac aaattatttt tatttgtttt aaaattaaaa tactgtgtac 1500
ccccccccc ccatgaaatg caggttact aaatgtgaac agctttgctt ttcacgtgat 1560
taagacccta ctccaaattg tagaagcttt tcaggaacca tattactctc atgatacttc 1620
attaatctcc atcatgtatg ccaagcctga cacatttgac agtgaggaca atgtggcttg 1680
ctcctttttg aatctacaga taatgcatgt ttacagtagc tccagatgtc tacactcaat 1740
aaaacatttg acaaaacc

```

<210> 11395  
 <211> 396  
 <212> PRT  
 <213> Homo sapiens

<400> 11395

Met	Pro	Pro	Lys	Lys	Gly	Gly	Asp	Gly	Ile	Lys	Pro	Pro	Pro	Ile	Ile
1				5				10						15	
Gly	Arg	Phe	Gly	Thr	Ser	Leu	Lys	Ile	Gly	Ile	Val	Gly	Leu	Pro	Asn
			20					25					30		
Ala	Gly	Lys	Ser	Thr	Phe	Phe	Asn	Val	Leu	Thr	Asn	Ser	Gln	Ala	Ser
		35					40				45				
Ala	Glu	Asn	Phe	Pro	Phe	Cys	Thr	Ile	Asp	Pro	Asn	Glu	Ser	Arg	Val
	50					55					60				
Pro	Val	Pro	Asp	Glu	Arg	Phe	Asp	Phe	Leu	Cys	Gln	Tyr	His	Lys	Pro
	65				70					75				80	
Ala	Ser	Lys	Ile	Pro	Ala	Phe	Leu	Asn	Val	Val	Asp	Ile	Ala	Gly	Leu
				85					90					95	
Val	Lys	Gly	Ala	His	Asn	Gly	Gln	Gly	Leu	Gly	Asn	Ala	Phe	Leu	Ser
			100					105					110		
His	Ile	Ser	Ala	Cys	Asp	Gly	Ile	Phe	His	Leu	Thr	Arg	Ala	Phe	Glu
		115					120					125			
Asp	Asp	Asp	Ile	Thr	His	Val	Glu	Gly	Ser	Val	Asp	Pro	Ile	Arg	Asp
	130					135					140				
Ile	Glu	Ile	Ile	His	Glu	Glu	Leu	Gln	Leu	Lys	Asp	Glu	Glu	Met	Ile
	145				150					155				160	
Gly	Pro	Ile	Ile	Asp	Lys	Leu	Glu	Lys	Val	Ala	Val	Arg	Gly	Gly	Asp
				165					170					175	
Lys	Lys	Leu	Lys	Pro	Glu	Tyr	Asp	Ile	Met	Cys	Lys	Val	Lys	Ser	Trp

				180						185						190			
Val	Ile	Asp	Gln	Lys	Lys	Pro	Val	Arg	Phe	Tyr	His	Asp	Trp	Asn	Asp				
		195					200					205							
Lys	Glu	Ile	Glu	Val	Leu	Asn	Lys	His	Leu	Phe	Leu	Thr	Ser	Lys	Pro				
	210					215					220								
Met	Val	Tyr	Leu	Val	Asn	Leu	Ser	Glu	Lys	Asp	Tyr	Ile	Arg	Lys	Lys				
225					230					235					240				
Asn	Lys	Trp	Leu	Ile	Lys	Ile	Lys	Glu	Trp	Val	Asp	Lys	Tyr	Asp	Pro				
			245						250					255					
Gly	Ala	Leu	Val	Ile	Pro	Phe	Ser	Gly	Ala	Leu	Glu	Leu	Lys	Leu	Gln				
		260						265				270							
Glu	Leu	Ser	Ala	Glu	Glu	Arg	Gln	Lys	Tyr	Leu	Glu	Ala	Asn	Met	Thr				
		275					280					285							
Gln	Ser	Ala	Leu	Pro	Lys	Ile	Ile	Lys	Ala	Gly	Phe	Ala	Ala	Leu	Gln				
	290					295					300								
Leu	Glu	Tyr	Phe	Phe	Thr	Ala	Gly	Pro	Asp	Glu	Val	Arg	Ala	Trp	Thr				
305					310					315					320				
Ile	Arg	Lys	Gly	Thr	Lys	Ala	Pro	Gln	Ala	Ala	Gly	Lys	Ile	His	Thr				
			325						330					335					
Asp	Phe	Glu	Lys	Gly	Phe	Ile	Met	Ala	Glu	Val	Met	Lys	Tyr	Glu	Asp				
		340						345					350						
Phe	Lys	Glu	Gly	Ser	Glu	Asn	Ala	Val	Lys	Ala	Ala	Gly	Lys	Tyr					
	355					360				365									
Arg	Gln	Gln	Gly	Arg	Asn	Tyr	Ile	Val	Glu	Asp	Gly	Asp	Ile	Ile	Phe				
	370				375					380									
Phe	Lys	Phe	Asn	Thr	Pro	Gln	Gln	Pro	Lys	Lys	Lys								
385					390					395									

<210> 11396  
 <211> 1407  
 <212> DNA  
 <213> Homo sapiens

<400> 11396  
 atttaccaat gactctgctc cgtttttggg gcagactgtt ttaagttgct caggagcctg 60  
 atggaaccat gaaccgagac tcttctctgt ttccctgcaa gacctcatct gcactaatgc 120  
 cttctccctg accttgacac ttcccccttt agctataaaa gcacttacca gccgaacgtg 180  
 gaacagtatc aaaaaagatt ccactctcca acgatttcag aactctgagc tcagagagac 240  
 tccagatttt aaaaaataat ttgagtgcct ggaaactatt agctttttta gttccttcca 300  
 aatatgttag tacctacctt ttactttttc cccaagacca tctcaggggt gagcattctg 360  
 tctaagagaa gaaagataag gaggtctcca cccacctctc ccaagagcag acattaaaca 420  
 tctttgtgct ttgaagagag tgaattttgg atagtcttgt gatttcagac taacttccag 480  
 aattatactt taaccctctc cagatatggt ccgccttttg cattgtgtgt acatctgcag 540  
 ttttgcattg tgggttggtt atatttcaaa tgtgtgggtt atgaatacgt ctgtataatc 600  
 ggcttctgga gtgaaacagc aaaccccaaa tottcaaagt tggaaggaac tttaaaaatc 660  
 atccggtcca atctcttttc tctttctgcc acctcccaag gcagaaatcc cctcttcagc 720  
 ttcttttgta ggtgggaatc cagcctctgt tagatatgtc cagagatgga aactcactcc 780

09629459.072300

```

cctacaaaag atggagctta atggagaaat tgcaactttc attaaaaaac aaattcagat 840
gaaatatcag taactgtctt ggacagtgtc gaaatcaggt ggtaaacgg gtaaacaaaa 900
tatactgtat ttgagaaat ggacacaaaa caggcagtc tctttaaggg ctatgcctag 960
gcaaactact aacatgcatt gtgagaatgc cgtgtatacc tcacgtactg tgtactttgt 1020
acatatatit taccttttat acctatgttc gattttgttt tgttttgttc tggctttgag 1080
gcttgttttg ttgtctgtgt ctgtctgaat aacctgcgtg tctaaaacca cgtgaaatgt 1140
gaatgattat tggcaatatt accttgacag aatcatggga ctttgagaag agggaggaca 1200
gaggcctctg tcgcactaac gctctcgtgg ttgctcgaat gttgtatctg tgatacatta 1260
tccgactaag gactctgggc tggcagggcc ttctgccggg aaagctagaa acactaggtt 1320
cttctgttac atacgtgtat atatgtgaac agtgagatgg cgtttctga cttgtagaga 1380
aattttaata aacctggttt cgtaaat 1407

```

<210> 11397  
 <211> 1364  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (219).. (1079)

```

<400> 11397
acttccccgg gagccggaag tcccgtctca cggttgccct ggcagcgcgc gaggctggtg 60
agtccgcagc cctgtggcag ccggcgggct ggtttccatg gttgcacgat taggaaccac 120
cagctgctgc atcccattggc caggggtggc gtccagggtg cagagcagct aggaacgcaa 180
ggcctgaacc tggggccaga caccctgctc tcccgccat ggtcaacgac cctccagtac 240
ctgccctact gtggggccag gaggtgggac aagtcttggc aggccgtgcc cgcaggctgc 300
tgctgcagtt tggggtgctc ttctgcacca tcttcccttt gctctgggtg tctgtcttcc 360
tctatggctc cttctactat tcctatatgc cgacagtcag ccacctcagc cctgtgcatt 420
tctactacag gaccgactgt gattcctcca ccacctcact ctgctccttc cctgttgcca 480
atgtctcgtc gactaagggt ggacgtgatc ggggtgctgat gtatggacag ccgtatcgtg 540
ttaccttaga gcttgagctg ccagagtccc ctgtgaatca agatttgggc atgttcttgg 600
tcaccatttc ctgctacacc agaggtggcc gaatcatctc cacttcttcg cgttcgggtg 660
tgctgcatta ccgctcagac ctgctccaga tgctggacac actggctctc tctagcctcc 720
tgctatttgg ctttgagagc cagaagcagc tgctggagggt ggaactctac gcagactata 780
gagagaactc gtacgtgccg accactggag cgatcattga gatccacagc aagcgcaccc 840
agctgtatgg agcctacctc cgcattccac cgcacttcac tgggctcagg ttaacatccg 900
aaaaagagac aattcccga aggaagtcca acgaaggatc tctgctcacc agccagggcc 960
tgaaggccag gaggagtcaa ctccgcaatc agatgttaca gaggatggtg agagccctga 1020
agatccctca gggacagagg gtcagctgtc cgaggaggag aaaccagatc agcagccctt 1080
gagcggagaa gaggagctag agcctgagga cagtgatggg tcaggctcct gggaagatgc 1140
agctttgtct acggaggcca acctgcctgc tctgtctcct gcttctgctt ctgcccctgt 1200
cctagagact ctgggcagct ctgaacctgc tgggggtgct ctccgacagc gccccacctg 1260
ctctagttcc tgaagaaaag gggcagactc ctacattcc agcactttcc cacctgactc 1320
ctctcccctc gtttttctt caataaacta ttttgtgtca gctt 1364

```

<210> 11398  
 <211> 287  
 <212> PRT  
 <213> Homo sapiens

<400> 11398  
 Met Val Asn Asp Pro Pro Val Pro Ala Leu Leu Trp Ala Gln Glu Val  
 1 5 10 15  
 Gly Gln Val Leu Ala Gly Arg Ala Arg Arg Leu Leu Leu Gln Phe Gly  
 20 25 30  
 Val Leu Phe Cys Thr Ile Leu Leu Leu Trp Val Ser Val Phe Leu  
 35 40 45  
 Tyr Gly Ser Phe Tyr Tyr Ser Tyr Met Pro Thr Val Ser His Leu Ser  
 50 55 60  
 Pro Val His Phe Tyr Tyr Arg Thr Asp Cys Asp Ser Ser Thr Thr Ser  
 65 70 75 80  
 Leu Cys Ser Phe Pro Val Ala Asn Val Ser Leu Thr Lys Gly Gly Arg  
 85 90 95  
 Asp Arg Val Leu Met Tyr Gly Gln Pro Tyr Arg Val Thr Leu Glu Leu  
 100 105 110  
 Glu Leu Pro Glu Ser Pro Val Asn Gln Asp Leu Gly Met Phe Leu Val  
 115 120 125  
 Thr Ile Ser Cys Tyr Thr Arg Gly Gly Arg Ile Ile Ser Thr Ser Ser  
 130 135 140  
 Arg Ser Val Met Leu His Tyr Arg Ser Asp Leu Leu Gln Met Leu Asp  
 145 150 155 160  
 Thr Leu Val Phe Ser Ser Leu Leu Leu Phe Gly Phe Ala Glu Gln Lys  
 165 170 175  
 Gln Leu Leu Glu Val Glu Leu Tyr Ala Asp Tyr Arg Glu Asn Ser Tyr  
 180 185 190  
 Val Pro Thr Thr Gly Ala Ile Ile Glu Ile His Ser Lys Arg Ile Gln  
 195 200 205  
 Leu Tyr Gly Ala Tyr Leu Arg Ile His Ala His Phe Thr Gly Leu Arg  
 210 215 220  
 Leu Thr Ser Glu Lys Glu Thr Ile Pro Gly Arg Lys Ser Asn Glu Gly  
 225 230 235 240  
 Ser Leu Leu Ile Ser Gln Gly Leu Lys Ala Arg Arg Ser Gln Leu Arg  
 245 250 255  
 Asn Gln Met Leu Gln Arg Met Val Arg Ala Leu Lys Ile Pro Gln Gly  
 260 265 270  
 Gln Arg Val Ser Cys Pro Arg Arg Arg Asn Gln Ile Ser Ser Pro  
 275 280 285

<210> 11399  
 <211> 1853  
 <212> DNA  
 <213> Homo sapiens

09629469.072800

<220>  
<221> CDS  
<222> (30).. (1484)

<400> 11399

```
tctcttttctc ctccacgtgg ggaacgcagga tggcggcagc agtggcggac gaggcgggtgg 60
cgcgcgatgt gcagcgggtt ctagtgcagt tccaggatga gggcggggcag ctgctgggtt 120
ccccgttcga cgtgcccggt gacatcacc cggacaggct gcagctcgtg tgcaacgcgc 180
tactggccca ggaggatccc ctgccactgg ctttctttgt ccacgatgct gagatcgtct 240
cctcactggg gaagacgttg gagtcccagg cagtggagac agagaaggtc ctagacatca 300
tctaccagcc acaggctatc ttcagagtcc gggctgtgac tcgctgcacc agctccttgg 360
agggtcacag tgaggcagtc atttctgttg ccttcagccc tacgggaaag tacctggcca 420
gtggctcttg agacaccacc gtgcgcttct gggatctcag cacagagaca ccacatttca 480
catgcaaggg acacagacac tgggtcctta gtatatcctg gtctccagat ggcaagaagc 540
tggcctcagg ctgcaagaat ggccagattc tcctctggga cccaagcaca gggaagcagg 600
tgggcaggac cctcgtctggc cacagcaagt ggatcacagg cctgagctgg gagcccctcc 660
atcggaaccc tgagtgcgc tatgtggcca gcagctccaa ggatggcagt gtgcggatct 720
gggacacaac tgcaggccgc tgtgagcgca tctcaccgg gcacaccag tcggtcacct 780
gtctccggtg gggaggggac gggcttctct actctgcctc ccaggaccgc accatcaaag 840
tctggagagc tcatgacggt gtgctgtgoc ggactctgca aggccacggc cactgggtga 900
acaccatggc cctcagcact gactatgccc tgcgcactgg ggctttgaa cctgctgagg 960
cctcagttaa tccccaaagc ctccaaggat ccttgcaagg gttgaaggag agggctctga 1020
gccgatacaa cctcgtgcgg ggccagggtc cagagaggct ggtgtctggc tccgacgact 1080
tcaccttatt cctgtggtcc ccagcagagg aaaaaagcc totcactcgg atgacaggac 1140
accaagctct catcaaccag gtgctcttct ctctgactc ccgcatcgtg gctagtgcct 1200
cctttgacaa gtccatcaag ctgtgggatg gcaggacggg caagtacctg gcttccctac 1260
gcggccacgt ggctgccgtg taccagattg cgtggtcagc tgacagtcgg ctccctgggtca 1320
gcggcgagcag tgacagcaca ctgaagggtg gggatgtgaa ggcccagaag ctggccatgg 1380
acctgcccg ccacgcggat gaggtatatg ctgttgactg gagtccagat ggccagagag 1440
tggcaagtgg tgggaaggac aaatgcctcc ggatatggag gagatgagac ggcccgaagt 1500
tctctctgac cccacctcg actcggcctc tgccagctgc cttccctgcc agagaacaaa 1560
ggctgagatg gcagtgcaca caccctcccc accagtgggg acctgagaat gcgtgtggcc 1620
tgctgtcctc gatagaccgg aatgggggtt tcccacagat ccccgctgt ggccaccccc 1680
agagccagaa atcgaaggtc acaggaagtt gtcactgaac ttggcccggt tctgtactc 1740
tgtaccttgc tggtacagac aggggtggtg ggcagccagg ctctatgagt gggcccctag 1800
tgtcagctct gtacagggtc agatcccagg ttctatgacc aaataagtaa ctt 1853
```

<210> 11400  
<211> 485  
<212> PRT  
<213> Homo sapiens

<400> 11400

```
Met Ala Ala Ala Val Ala Asp Glu Ala Val Ala Arg Asp Val Gln Arg
  1                      5                      10                      15
Leu Leu Val Gln Phe Gln Asp Glu Gly Gly Gln Leu Leu Gly Ser Pro
```





-4867/13211-

```

              405              410              415
Val Tyr Gln Ile Ala Trp Ser Ala Asp Ser Arg Leu Leu Val Ser Gly
              420              425              430
Ser Ser Asp Ser Thr Leu Lys Val Trp Asp Val Lys Ala Gln Lys Leu
              435              440              445
Ala Met Asp Leu Pro Gly His Ala Asp Glu Val Tyr Ala Val Asp Trp
              450              455              460
Ser Pro Asp Gly Gln Arg Val Ala Ser Gly Gly Lys Asp Lys Cys Leu
465              470              475              480
Arg Ile Trp Arg Arg
              485
```

<210> 11401  
<211> 771  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (82).. (708)

```

<400> 11401
gcttccggca ccggccgagg tgcgggtcgc ctccagagat cctgtgcctt caaacccctac 60
gagtcctatac tttaaaacaa aatgaagaaa gtaaggctta aggaactaga gattcgccctg 120
caacaagtgg atggatttga aaagcccaag ctacttctgg gacagtatcc taccaggccg 180
cacattgcag catgtatgct ctataacaatc cataacactt atgatgacat tgaaaataaa 240
gtcgttgcag atctaggatg tggttgtgga gtacttagca tcggaaactgc aatgttagga 300
gcagggttgt gtgttggatt tgacatagat gaagacgcat tggaaatatt taataggaat 360
gcagaagagt ttgagttaac aaatattgac atggttcaat gtgatgtgtg cttattatct 420
aacagaatgt ccaagtcatt cgatacagta attatgaatc ctccctttgg gacaaaaaat 480
aataaaggga cagatatggc ttttctaaag actgcttttg aaatggcaag aacagcagta 540
tattccttac acaaatcctc aactagagaa catgttcaaa agaaagctgc agaattgaaa 600
atcaagatag atattatagc agaacttoga tatgacctgc cagcatcata caagtttcac 660
aaaaagaaat cagtggacat tgaagtggac ctaattcggg ttccctttta aaagccccgc 720
aaacaaaagt cgtttaaaac ctatttaaaa tgaataaaaa attggtttac t 771
```

<210> 11402  
<211> 209  
<212> PRT  
<213> Homo sapiens

```

<400> 11402
Met Lys Lys Val Arg Leu Lys Glu Leu Glu Ser Arg Leu Gln Gln Val
  1              5              10              15
Asp Gly Phe Glu Lys Pro Lys Leu Leu Leu Gly Gln Tyr Pro Thr Arg
              20              25              30
```

009220.69462960

Pro His Ile Ala Ala Cys Met Leu Tyr Thr Ile His Asn Thr Tyr Asp  
35 40 45  
Asp Ile Glu Asn Lys Val Val Ala Asp Leu Gly Cys Gly Cys Gly Val  
50 55 60  
Leu Ser Ile Gly Thr Ala Met Leu Gly Ala Gly Leu Cys Val Gly Phe  
65 70 75 80  
Asp Ile Asp Glu Asp Ala Leu Glu Ile Phe Asn Arg Asn Ala Glu Glu  
85 90 95  
Phe Glu Leu Thr Asn Ile Asp Met Val Gln Cys Asp Val Cys Leu Leu  
100 105 110  
Ser Asn Arg Met Ser Lys Ser Phe Asp Thr Val Ile Met Asn Pro Pro  
115 120 125  
Phe Gly Thr Lys Asn Asn Lys Gly Thr Asp Met Ala Phe Leu Lys Thr  
130 135 140  
Ala Leu Glu Met Ala Arg Thr Ala Val Tyr Ser Leu His Lys Ser Ser  
145 150 155 160  
Thr Arg Glu His Val Gln Lys Lys Ala Ala Glu Trp Lys Ile Lys Ile  
165 170 175  
Asp Ile Ile Ala Glu Leu Arg Tyr Asp Leu Pro Ala Ser Tyr Lys Phe  
180 185 190  
His Lys Lys Lys Ser Val Asp Ile Glu Val Asp Leu Ile Arg Phe Ser  
195 200 205  
Phe

<210> 11403  
<211> 1754  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (19).. (723)

<400> 11403  
ggaaggtgcg tccgagccat ggccgctgcc aaccggtggg acccggcgtc cgcgcctaac 60  
ggcgtctgggc tagtgctagg ccacttcata gottcgggga tggatcaatca ggagatgtta 120  
aacatgtcta agaaaacagt ttcttgTTTT gtgaacttca ccagactaca gcagatcaca 180  
aatattcaag ctgaaatcta ccagaaaaac ctggaaattg aactcctgaa actagaaaaa 240  
gatacagcag atgttgTTca tcttttcttt ttggctcaga agtgtcatac tctgcaaagc 300  
atgaataatc atttggaagc agtgctgaaa gagaagagat cccttaggca aagactgttg 360  
aaacccatgt gccaggaaaa cttacctatt gaagctgttt atcacagata tatggtacat 420  
ttgctggagt tggctgtgac tticattgag agattagaaa cccaccttga aacaattaga 480  
aatattcctc atttagctgc aaatctaaag aaaatgaacc aggccttagc aaagatggat 540  
atattggtga ctgagacaga agaactggca gagaatatac tcaagtggcg taaacaacaa 600  
aacgaagttt cgtcttgtat ccccaaaata ttagctgaag aaagttatct ttataaacat 660  
gatattataa tgccctcttt accttttact totaaagtto atgtccaaac tattaatgcc 720

008270.69462960



Val Thr Glu Thr Glu Glu Leu Ala Glu Asn Ile Leu Lys Trp Arg Lys  
 180 185 190  
 Gln Gln Asn Glu Val Ser Ser Cys Ile Pro Lys Ile Leu Ala Glu Glu  
 195 200 205  
 Ser Tyr Leu Tyr Lys His Asp Ile Ile Met Pro Pro Leu Pro Phe Thr  
 210 215 220  
 Ser Lys Val His Val Gln Thr Ile Asn Ala Lys  
 225 230 235

<210> 11405  
 <211> 1978  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (200).. (745)

<400> 11405  
 atcttctcac cgaagcttag tacagcgggt tgaacaacatt tctctagggt agcacccttg 60  
 tgacagagga gaacaagtaa ctctcttccct cttcaatgat tgcctagaga tagcaagaaa 120  
 acggcacaag gttattggca cttttaggag tctcatggc caaacccgac cccagcttc 180  
 tcttaagcat attcacctaa tgccctcttc tcagattaag aaggtattgg acataagaga 240  
 gacagaagat tgccataatg cttttgcctt gcttgtgagg ccaccaacag agcaggcaaa 300  
 tgtgtactc agtttccaga tgacatcaga tgaacttcca aaagaaaact ggctaaagat 360  
 gctgtgtcga catgtagcta acaccatttg taaagcagat gctgagaatc ttattttatac 420  
 tgctgatcca gaatcctttg aagtaaatac aaaagatatg gacagtacat tgagtagagc 480  
 atcaagagca ataaaaaaga cttcaaaaaa ggttacaaga gcatttctct tctccaaaac 540  
 tccaaaaaga gctcttcgaa gggctcttat gacatcccac ggctcagtgg agggaagaag 600  
 tccttccagc aatgataagc atgtaatgag tcgtctttct agcacatcat cattagcagg 660  
 tatcccttct ccctcccttg tcagccttcc ttcttcttct gaaaggagaa gtcatacgtt 720  
 aagtagatct acaactcatt tgatatgaag cgttaccaaa atctttaaatt atagaaatgt 780  
 atagacacct cactactcaa taagaaactg acttaaatgg tacttgtaat tagcacttgg 840  
 tgaaagctgg aaggaagata aataacacta aactatgcta tttgattttt cttcttgaaa 900  
 gggtaagggt tacctgttac attttcaagt taattcatgt aaaaaatgat agtgattttg 960  
 atgtaattta tctcttggtt gaatctgtca ttcaaaggcc aataatttaa gttgctatca 1020  
 gctgatatta gtagctttgc aacctgata gagtaaataa attttatggg cgggtgccaa 1080  
 atactgctgt gaatctattt gtatagtatc catgaatgaa tttatggaaa tagatatttg 1140  
 tgcagctcaa tttatgcaga gattaaatga catcataata ctggatgaaa acttgcatag 1200  
 aattctgatt aaatagtggg tctgtttcac atgtgcagtt tgaagtattt aaataaccac 1260  
 tcctttcaca gtttattttc ttctcaagcg ttttcaagat ctagcatgtg gattttaaaa 1320  
 gatttgcctt cattaacagg aataacattt aaaggagatt gtttcaaaaat atttttgcaa 1380  
 attgagataa ggacagaaag attgagaaac attgtatatt ttgcaaaaaa aagatgtttg 1440  
 tagctgtttc agagagagta cgggtatatt atggtaattt tatccactag caaatcttga 1500  
 tttagtttga tagtgtgtgg aattttattt tgaaggataa gaccatggga aaattgtggg 1560  
 aaagactgtt tgtacccttc atgaaataat tctgaagttg ccatcagttt tactaatctt 1620  
 ctgtgaaatg catagatatg cgcagtgtca actttttatt gtggtcttat aattaaatgt 1680

009220" 69462960

-4871/13211-

aaaattgaaa attcatttgc tgtttcaaag tgtgatatot ttcacaatag cctttttata 1740  
gtcagtaatt cagaataatc aagttcatat ggataaatgc atttttatit cctatttctt 1800  
tagggagtgc tacaaatggt tgtcacttaa atttcaagtt tctgttttaa tagttaactg 1860  
actatagatt gttttctatg ccatgtatgt gccacttctg agagtagtaa atgactcttt 1920  
gctacatttt aaaagcaatt gtattagtaa gaactttgta aataaatacc taaaaccc 1978

<210> 11406  
<211> 182  
<212> PRT  
<213> Homo sapiens

<400> 11406  
Met Pro Leu Ser Gln Ile Lys Lys Val Leu Asp Ile Arg Glu Thr Glu  
1 5 10 15  
Asp Cys His Asn Ala Phe Ala Leu Leu Val Arg Pro Pro Thr Glu Gln  
20 25 30  
Ala Asn Val Leu Leu Ser Phe Gln Met Thr Ser Asp Glu Leu Pro Lys  
35 40 45  
Glu Asn Trp Leu Lys Met Leu Cys Arg His Val Ala Asn Thr Ile Cys  
50 55 60  
Lys Ala Asp Ala Glu Asn Leu Ile Tyr Thr Ala Asp Pro Glu Ser Phe  
65 70 75 80  
Glu Val Asn Thr Lys Asp Met Asp Ser Thr Leu Ser Arg Ala Ser Arg  
85 90 95  
Ala Ile Lys Lys Thr Ser Lys Lys Val Thr Arg Ala Phe Ser Phe Ser  
100 105 110  
Lys Thr Pro Lys Arg Ala Leu Arg Arg Ala Leu Met Thr Ser His Gly  
115 120 125  
Ser Val Glu Gly Arg Ser Pro Ser Ser Asn Asp Lys His Val Met Ser  
130 135 140  
Arg Leu Ser Ser Thr Ser Ser Leu Ala Gly Ile Pro Ser Pro Ser Leu  
145 150 155 160  
Val Ser Leu Pro Ser Phe Phe Glu Arg Arg Ser His Thr Leu Ser Arg  
165 170 175  
Ser Thr Thr His Leu Ile  
180

<210> 11407  
<211> 1973  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (148).. (1692)

008220.69462960

<400> 11407

```

gaaagactgg agccgtttcc ttgtggctgg agcgcttccc gtagcctcgg ggaaggagca 60
ggatttagag gaccactagt tggaccccat cctcgtgctg gaggaacagg aacctctttc 120
aggagctata aaagaaaggg gggaatcatg tccacaattg cagctttcta tggcggcaag 180
tccatcctca tcacgggggc cacaggcttt ctgggcaaag tgctaattga gaagctgttt 240
cgcaccagcc cagacctgaa agtcatttac atccttgtga ggcccaaggc tggccagaca 300
ctgcagcaga gggttttcca gatcctagac agtaagctat ttgagaaagt caaagaagtt 360
tgtccaaatg tgcattgaga gatcagagct atttatgcag atctcaatca gaatgacttt 420
gccatcagca aagaggacat gcaggagctt ctctcctgta caaacataat atttactgt 480
gcagccactg tacgctttga cgacactctc agacatgctg tgcaacttaa cgtcactgcc 540
acccggcagc tcttgcttat ggctagttag atgcccgaagc tgggaagcctt tatacatatc 600
tctactgcct attcaaatg taacctgaag cacatcgatg aagttacctt tccgtgccct 660
gtggagccaa aaaaaatcat tgattccctt gagggttag acgatgctat tattgacgag 720
attacaccca agctgatcag agattggccc aatatttata cctacaccaa ggccttggga 780
gaaatggtgg tgcagcaaga gagcaggaac ctgaacattg ccatcataag gccctccatt 840
gtgggagcaa cttggcagga gcctttccca ggttgggttg ataataataa tggacctaat 900
ggaatcatta ttgcgactgg gaaagggttt cttcggggcca taaaagctac tccaatggct 960
gtggcagacg taattccagt tgatacagtc gtcaatctca tgctagctgt aggatgggtat 1020
actgcagttc acagacctaa gtcaacatta gtctaccaca ttacatctgg taacatgaat 1080
ccctgcaatt ggcacaaaat gggagtccaa gtcttggcaa cctttgaaaa aatcccattt 1140
gagagacctt tcaggaggcc aaatgctaatt tttaccagca acagcttcac atcacagtac 1200
tggaatgcgg tcagccaccg ggcccctgcc attatctatg actgotatct gcggctcact 1260
ggaagggaagc ccaggatgac aaagctcatg aatcggcttt taagaactgt ttccatgttg 1320
gagtatttca tcaaccggag ttgggaatgg agcacgtaca atacagaaat gctgatgtct 1380
gagctgagtc ctgaagacca gaggggtatt aactttgacg tgcgccagtt gaactggttg 1440
gaatacattg aaaattatgt tttgggagtt aaaaaatact tattgaaaga ggatatggct 1500
gggatcccaa aggcaaagca acgcttaaaa aggctccgaa atatttacta cctctttaat 1560
actgccctct tccttatcgc ctggcgccct ctcatgcaa gatctcagat ggctcggaat 1620
gtctggttct tcattgtaag cttctgttat aaattcctct cctacttttag agcatccagc 1680
acgctcaaaag tttaagagca tttagccatc gcctttttatc tggaacctct cagataacctc 1740
taaaacagca aactgtgatt ctcaagatta gaaagtaaca aggaatatgc caaaactgtc 1800
aaatgtcacc tgttatgtat tcgtccctat tccttaacta tgtattttta tttcagttag 1860
agaaggaaag ttgtaacta gcccatagtc acctatattt tagggaaaaa aatccaaatt 1920
gtttcctaac attctatttt atgcctttgc gtattaaacg tgaaagtact ccc 1973

```

<210> 11408

<211> 515

<212> PRT

<213> Homo sapiens

<400> 11408

```

Met Ser Thr Ile Ala Ala Phe Tyr Gly Gly Lys Ser Ile Leu Ile Thr
  1             5             10             15
Gly Ala Thr Gly Phe Leu Gly Lys Val Leu Met Glu Lys Leu Phe Arg
          20             25             30
Thr Ser Pro Asp Leu Lys Val Ile Tyr Ile Leu Val Arg Pro Lys Ala
      35             40             45

```

Gly	Gln	Thr	Leu	Gln	Gln	Arg	Val	Phe	Gln	Ile	Leu	Asp	Ser	Lys	Leu
50						55					60				
Phe	Glu	Lys	Val	Lys	Glu	Val	Cys	Pro	Asn	Val	His	Glu	Lys	Ile	Arg
65					70					75					80
Ala	Ile	Tyr	Ala	Asp	Leu	Asn	Gln	Asn	Asp	Phe	Ala	Ile	Ser	Lys	Glu
				85					90					95	
Asp	Met	Gln	Glu	Leu	Leu	Ser	Cys	Thr	Asn	Ile	Ile	Phe	His	Cys	Ala
		100						105					110		
Ala	Thr	Val	Arg	Phe	Asp	Asp	Thr	Leu	Arg	His	Ala	Val	Gln	Leu	Asn
	115						120					125			
Val	Thr	Ala	Thr	Arg	Gln	Leu	Leu	Leu	Met	Ala	Ser	Gln	Met	Pro	Lys
130					135						140				
Leu	Glu	Ala	Phe	Ile	His	Ile	Ser	Thr	Ala	Tyr	Ser	Asn	Cys	Asn	Leu
145					150					155					160
Lys	His	Ile	Asp	Glu	Val	Thr	Tyr	Pro	Cys	Pro	Val	Glu	Pro	Lys	Lys
			165					170						175	
Ile	Ile	Asp	Ser	Leu	Glu	Trp	Leu	Asp	Asp	Ala	Ile	Ile	Asp	Glu	Ile
		180						185					190		
Thr	Pro	Lys	Leu	Ile	Arg	Asp	Trp	Pro	Asn	Ile	Tyr	Thr	Tyr	Thr	Lys
	195						200					205			
Ala	Leu	Gly	Glu	Met	Val	Val	Gln	Gln	Glu	Ser	Arg	Asn	Leu	Asn	Ile
210					215						220				
Ala	Ile	Ile	Arg	Pro	Ser	Ile	Val	Gly	Ala	Thr	Trp	Gln	Glu	Pro	Phe
225				230					235						240
Pro	Gly	Trp	Val	Asp	Asn	Ile	Asn	Gly	Pro	Asn	Gly	Ile	Ile	Ile	Ala
			245					250					255		
Thr	Gly	Lys	Gly	Phe	Leu	Arg	Ala	Ile	Lys	Ala	Thr	Pro	Met	Ala	Val
			260				265						270		
Ala	Asp	Val	Ile	Pro	Val	Asp	Thr	Val	Val	Asn	Leu	Met	Leu	Ala	Val
	275					280						285			
Gly	Trp	Tyr	Thr	Ala	Val	His	Arg	Pro	Lys	Ser	Thr	Leu	Val	Tyr	His
290					295						300				
Ile	Thr	Ser	Gly	Asn	Met	Asn	Pro	Cys	Asn	Trp	His	Lys	Met	Gly	Val
305				310						315					320
Gln	Val	Leu	Ala	Thr	Phe	Glu	Lys	Ile	Pro	Phe	Glu	Arg	Pro	Phe	Arg
			325						330					335	
Arg	Pro	Asn	Ala	Asn	Phe	Thr	Ser	Asn	Ser	Phe	Thr	Ser	Gln	Tyr	Trp
		340					345						350		
Asn	Ala	Val	Ser	His	Arg	Ala	Pro	Ala	Ile	Ile	Tyr	Asp	Cys	Tyr	Leu
	355					360						365			
Arg	Leu	Thr	Gly	Arg	Lys	Pro	Arg	Met	Thr	Lys	Leu	Met	Asn	Arg	Leu
370					375						380				
Leu	Arg	Thr	Val	Ser	Met	Leu	Glu	Tyr	Phe	Ile	Asn	Arg	Ser	Trp	Glu
385				390					395						400
Trp	Ser	Thr	Tyr	Asn	Thr	Glu	Met	Leu	Met	Ser	Glu	Leu	Ser	Pro	Glu
			405					410					415		
Asp	Gln	Arg	Val	Phe	Asn	Phe	Asp	Val	Arg	Gln	Leu	Asn	Trp	Leu	Glu
			420					425					430		

09629469-072800



Tyr Ile Glu Asn Tyr Val Leu Gly Val Lys Lys Tyr Leu Leu Lys Glu  
435 440 445  
Asp Met Ala Gly Ile Pro Lys Ala Lys Gln Arg Leu Lys Arg Leu Arg  
450 455 460  
Asn Ile His Tyr Leu Phe Asn Thr Ala Leu Phe Leu Ile Ala Trp Arg  
465 470 475 480  
Leu Leu Ile Ala Arg Ser Gln Met Ala Arg Asn Val Trp Phe Phe Ile  
485 490 495  
Val Ser Phe Cys Tyr Lys Phe Leu Ser Tyr Phe Arg Ala Ser Ser Thr  
500 505 510  
Leu Lys Val  
515

<210> 11409  
<211> 1772  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (5).. (1678)

<400> 11409  
cgcgatggag gccgccgccc agttcttcgt cgagagcccc gacgtggtct acggccccga 60  
ggccatcgag gcgcaatacg agtacccggac gacgcgcgtc agccgcgagg gtggcggttct 120  
caaggtgcac cccacgtcca cgcgcttcac ctcccgacc gcccggcagg tgccccggct 180  
cgggggtcatg cttgtcggct ggggcgggaa caacggctcc aactcaccg ccgcggtgct 240  
ggccaatcga ctgcgtttgt cctggcccac gcgcagcggc cgcaaggagg ccaactacta 300  
cggctcgcgtg actcaggcgg gcaccgtgag cctgggcctg gacgccgagg gccaggaggt 360  
gttcgtaccc ttcagcgcgg tgctgcccac ggtggcgccc aacgacctcg tttcgtatgg 420  
ctgggacatc tcgtcgtga acctggccga ggcatgcgg cgcgcaagg tgctggactg 480  
ggggctgcag gagcaactgt ggccgcacat ggaggccctg cggccccggc cttctgttta 540  
catccccgaa ttcacgcgg ccaaccagag cgcgcgcgcg gacaacctca tcccaggctc 600  
gcgtgcgcag cagctggagc agatccgcag ggacatccga gacttcgggt ctacgcggg 660  
gctggacaaa gtcatagtgc tgtggacggc gaacacggag cgcttctgtg aggtgattcc 720  
aggcctcaac gacacagccg agaacctgct gcgcaccatt gagctcggtc tggagggtgc 780  
gccctccacg ctcttcgccg tggccagcat cctggagggc tgtgccttcc tcaatgggtc 840  
tccgcagaac accctggtgc ccggagctct tgagctcgcg tggcagcacc gggtttttgt 900  
gggcggagat gacttcaagt caggccagac caaagtcaag tccgtgcttg tggacttcct 960  
cattggctcc ggcccaaga ccatgtccat cgtgagttac aaccacctgg gcaacaacga 1020  
tggggagaac ctgtcggcgc cattgcagtt ccgctctaag gaggtgtcca agagcaacgt 1080  
ggtggacgac atggtgcaga gcaaccagt gctctatacg cccggcgaag agcctgacca 1140  
ctgcgtggtc atcaagtatg tgccgtacgt gggtagacagc aagcgcgcgc tggatgagta 1200  
tacctcggag ctgatgctgg gcggaaccaa cacttggtg ctgcacaaca cgtgtgagga 1260  
ctcgtcgtc gccgcaccca tcatgctgga cctagcgtg ctgaccgagc tgtgccagcg 1320  
cgtgagcttc tgactgaca tggaccccga gccgcagacc ttccaccccg tctgtccct 1380  
gtcagcttc ctctcaagg cgcactagt gccgccggc agcccggttg tcaatgcgct 1440

```

tttccgccag cgcagctgca tcgagaacat cctcagggcc tgcgtggggc tcccgccaca 1500
gaaccacatg ctccctggaac acaaaatgga ggcgccaggg ccctgcctca agcgagttgg 1560
acccgtggct gccacctacc ctatgttgaa caagaaagga ccggtacccg ctgccaccaa 1620
tggctgcacc ggtgatgcca atgggcatct gcaagaggag cccccaatgc ccaccacctg 1680
aggccccggt cacacagttt ctgggtcttt cctccccgct gccccccacg accctacctt 1740
gaaggcccc acaataaag gcgctgccac tc                                     1772

```

<210> 11410  
 <211> 558  
 <212> PRT  
 <213> Homo sapiens

<400> 11410

Met	Glu	Ala	Ala	Ala	Gln	Phe	Phe	Val	Glu	Ser	Pro	Asp	Val	Val	Tyr
1				5					10					15	
Gly	Pro	Glu	Ala	Ile	Glu	Ala	Gln	Tyr	Glu	Tyr	Arg	Thr	Thr	Arg	Val
			20					25					30		
Ser	Arg	Glu	Gly	Gly	Val	Leu	Lys	Val	His	Pro	Thr	Ser	Thr	Arg	Phe
		35					40					45			
Thr	Phe	Arg	Thr	Ala	Arg	Gln	Val	Pro	Arg	Leu	Gly	Val	Met	Leu	Val
	50					55					60				
Gly	Trp	Gly	Gly	Asn	Asn	Gly	Ser	Thr	Leu	Thr	Ala	Ala	Val	Leu	Ala
65					70					75				80	
Asn	Arg	Leu	Arg	Leu	Ser	Trp	Pro	Thr	Arg	Ser	Gly	Arg	Lys	Glu	Ala
				85					90				95		
Asn	Tyr	Tyr	Gly	Ser	Leu	Thr	Gln	Ala	Gly	Thr	Val	Ser	Leu	Gly	Leu
			100					105					110		
Asp	Ala	Glu	Gly	Gln	Glu	Val	Phe	Val	Pro	Phe	Ser	Ala	Val	Leu	Pro
	115						120					125			
Met	Val	Ala	Pro	Asn	Asp	Leu	Val	Phe	Asp	Gly	Trp	Asp	Ile	Ser	Ser
	130					135					140				
Leu	Asn	Leu	Ala	Glu	Ala	Met	Arg	Arg	Ala	Lys	Val	Leu	Asp	Trp	Gly
145					150					155				160	
Leu	Gln	Glu	Gln	Leu	Trp	Pro	His	Met	Glu	Ala	Leu	Arg	Pro	Arg	Pro
				165					170					175	
Ser	Val	Tyr	Ile	Pro	Glu	Phe	Ile	Ala	Ala	Asn	Gln	Ser	Ala	Arg	Ala
			180					185					190		
Asp	Asn	Leu	Ile	Pro	Gly	Ser	Arg	Ala	Gln	Gln	Leu	Glu	Gln	Ile	Arg
	195						200					205			
Arg	Asp	Ile	Arg	Asp	Phe	Arg	Ser	Ser	Ala	Gly	Leu	Asp	Lys	Val	Ile
	210					215					220				
Val	Leu	Trp	Thr	Ala	Asn	Thr	Glu	Arg	Phe	Cys	Glu	Val	Ile	Pro	Gly
225					230					235				240	
Leu	Asn	Asp	Thr	Ala	Glu	Asn	Leu	Leu	Arg	Thr	Ile	Glu	Leu	Gly	Leu
				245					250					255	
Glu	Val	Ser	Pro	Ser	Thr	Leu	Phe	Ala	Val	Ala	Ser	Ile	Leu	Glu	Gly
			260					265					270		

000220 69462960

-4876/13211-

Cys Ala Phe Leu Asn Gly Ser Pro Gln Asn Thr Leu Val Pro Gly Ala  
275 280 285  
Leu Glu Leu Ala Trp Gln His Arg Val Phe Val Gly Gly Asp Asp Phe  
290 295 300  
Lys Ser Gly Gln Thr Lys Val Lys Ser Val Leu Val Asp Phe Leu Ile  
305 310 315 320  
Gly Ser Gly Leu Lys Thr Met Ser Ile Val Ser Tyr Asn His Leu Gly  
325 330 335  
Asn Asn Asp Gly Glu Asn Leu Ser Ala Pro Leu Gln Phe Arg Ser Lys  
340 345 350  
Glu Val Ser Lys Ser Asn Val Val Asp Asp Met Val Gln Ser Asn Pro  
355 360 365  
Val Leu Tyr Thr Pro Gly Glu Glu Pro Asp His Cys Val Val Ile Lys  
370 375 380  
Tyr Val Pro Tyr Val Gly Asp Ser Lys Arg Ala Leu Asp Glu Tyr Thr  
385 390 395 400  
Ser Glu Leu Met Leu Gly Gly Thr Asn Thr Leu Val Leu His Asn Thr  
405 410 415  
Cys Glu Asp Ser Leu Leu Ala Ala Pro Ile Met Leu Asp Leu Ala Leu  
420 425 430  
Leu Thr Glu Leu Cys Gln Arg Val Ser Phe Cys Thr Asp Met Asp Pro  
435 440 445  
Glu Pro Gln Thr Phe His Pro Val Leu Ser Leu Leu Ser Phe Leu Phe  
450 455 460  
Lys Ala Pro Leu Val Pro Pro Gly Ser Pro Val Val Asn Ala Leu Phe  
465 470 475 480  
Arg Gln Arg Ser Cys Ile Glu Asn Ile Leu Arg Ala Cys Val Gly Leu  
485 490 495  
Pro Pro Gln Asn His Met Leu Leu Glu His Lys Met Glu Arg Pro Gly  
500 505 510  
Pro Cys Leu Lys Arg Val Gly Pro Val Ala Ala Thr Tyr Pro Met Leu  
515 520 525  
Asn Lys Lys Gly Pro Val Pro Ala Ala Thr Asn Gly Cys Thr Gly Asp  
530 535 540  
Ala Asn Gly His Leu Gln Glu Glu Pro Pro Met Pro Thr Thr  
545 550 555

<210> 11411  
<211> 1784  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (218).. (976)

<400> 11411

09629459.072800

```

gttgccaggg agcggcgcgagg gagccctgag gggactgcgg cggctgcgag gaggagcgag 60
gcgcttgctg gggtcgggggc tgcgcgacgg cgcaggggct gcggggagcg ccgcgcaggc 120
cgtgcagttc ctagcgagga ggccgcggcg ccattgccgc tctctcgggt agcgcagccc 180
cgctctccgg gccgggcctt cgcggggccac cggcgccatg ggccagtgcg gcatcacctc 240
ctccaagacc gtgctggtct ttctcaacct catcttctgg ggggcagctg gcattttatg 300
ctatgtggga gcctatgtct tcatcactta tgatgactat gaccacttct ttgaagatgt 360
gtacacgctc atccctgctg tagtgatcat agctgtagga gccctgcttt tcatcattgg 420
gctaattggc tgctgtgcca caatccggga aagtcgctgt ggacttgcca cgtttgtcat 480
catcctgctc ttggtttttg tcacagaagt tgtttagtg gttttgggat atgtttacag 540
agcaaagggt gaaaatgagg ttgatcgag cattcagaaa gtgtataaga cctacaatgg 600
aaccaaccct gatgctgcta gccgggctat tgattatgta cagagacagc tgcattgttg 660
tggaattcac aactactcag actgggaaaa tacagattgg ttcaaagaaa ccaaaaacca 720
gagtgtccct cttagctgct gcagagagac tgccagcaat tgtaatggca gcctggccca 780
cccttccgac ctctatgctg aggggtgtga ggotctagtt gtgaagaagc tacaagaaat 840
catgatgcat gtgatctggg ccgcactggc atttgcagct attcagctgc tgggcatgct 900
gtgtgcttgc atcgtgttgt gcagaaggag tagagatcct gcttacgagc tcctcatcac 960
tggcgggacc tatgcatagt tgacaactca agcctgagct ttttggctct gttctgattt 1020
ggaaggtgaa ttgagcaggt ctgctgctgt tggcctctgg agttcattta gttaaagcac 1080
atgtacactg gtgttggaca gagcagcttg gcttttcatg tgcccaccta cttacctact 1140
acctgcgact ttctttttcc ttgttctagc tgactcttca tgcccctaag attttaagta 1200
cgatggtgaa cgttctaatt tcagaaccaa ttgcgagtca tgtagtgtgg tagaattaaa 1260
ggaggacacg agcctgcttc tgttacctcc aagtggtaac aggactgatg ccgaaatgtc 1320
accaggtcct ttcagtcttc acagtggaga actcttggcc aaagggtttt ggggggagga 1380
ggaggaaacc agctttcttg ttaaggttaa caccagatgg tgcccctcat tgggtgtcctt 1440
ttaaaaaata tttactgtag tccaataaga tagcagctgt acaaaatgac taaaatagat 1500
tgtaggatca tatggcgtat atcttggttc atcttcaaaa tcagagactg agctttgaaa 1560
ctagtggcct ttaatcaaag ttggctttat aggaggagta taatgtatgc actactgttt 1620
taaaagaatt agtgtgagt tgtttttgta tgaatgagcc cattcatggt aagtcttaag 1680
cttgttggaa ataatgtacc catgtagact agcaaaatag tatgtagatg tgatctcagt 1740
tgtaaataga aaaatcta tcaataaact ctgtatcagc cccc 1784

```

<210> 11412  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 11412

Met	Gly	Gln	Cys	Gly	Ile	Thr	Ser	Ser	Lys	Thr	Val	Leu	Val	Phe	Leu
1				5					10					15	
Asn	Leu	Ile	Phe	Trp	Gly	Ala	Ala	Gly	Ile	Leu	Cys	Tyr	Val	Gly	Ala
			20					25					30		
Tyr	Val	Phe	Ile	Thr	Tyr	Asp	Asp	Tyr	Asp	His	Phe	Phe	Glu	Asp	Val
		35					40					45			
Tyr	Thr	Leu	Ile	Pro	Ala	Val	Val	Ile	Ile	Ala	Val	Gly	Ala	Leu	Leu
	50					55					60				
Phe	Ile	Ile	Gly	Leu	Ile	Gly	Cys	Cys	Ala	Thr	Ile	Arg	Glu	Ser	Arg
65					70					75					80

Cys Gly Leu Ala Thr Phe Val Ile Ile Leu Leu Leu Val Phe Val Thr  
85 90 95  
Glu Val Val Val Val Val Leu Gly Tyr Val Tyr Arg Ala Lys Val Glu  
100 105 110  
Asn Glu Val Asp Arg Ser Ile Gln Lys Val Tyr Lys Thr Tyr Asn Gly  
115 120 125  
Thr Asn Pro Asp Ala Ala Ser Arg Ala Ile Asp Tyr Val Gln Arg Gln  
130 135 140  
Leu His Cys Cys Gly Ile His Asn Tyr Ser Asp Trp Glu Asn Thr Asp  
145 150 155 160  
Trp Phe Lys Glu Thr Lys Asn Gln Ser Val Pro Leu Ser Cys Cys Arg  
165 170 175  
Glu Thr Ala Ser Asn Cys Asn Gly Ser Leu Ala His Pro Ser Asp Leu  
180 185 190  
Tyr Ala Glu Gly Cys Glu Ala Leu Val Val Lys Lys Leu Gln Glu Ile  
195 200 205  
Met Met His Val Ile Trp Ala Ala Leu Ala Phe Ala Ala Ile Gln Leu  
210 215 220  
Leu Gly Met Leu Cys Ala Cys Ile Val Leu Cys Arg Arg Ser Arg Asp  
225 230 235 240  
Pro Ala Tyr Glu Leu Leu Ile Thr Gly Gly Thr Tyr Ala  
245 250

<210> 11413  
<211> 1745  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (17).. (829)

<400> 11413  
accacgcgtc tcatccatgg cttccgcgga ctgcgcgcgg ctggcagatg gcggcgggtgc 60  
cgggggcacc ttccagccct acctagacac cttgcggcag gagctgcagc agacggaccc 120  
aacgctgttg tcagtagtgg tggcggttct tgcggtgctg ctgacgctag tcttctggaa 180  
gttaatccgg agcagaagga gcagtcagag agctgttctt cttgttggcc tttgtgattc 240  
cgggaaaacg ttgctctttg tcaggttgtt aacaggcctt tatagagaca ctgacacgtc 300  
cattactgac agctgtgctg tatacagagt caacaataac aggggcaata gtctgacctt 360  
gattgacctt cccggccatg agagtittgag gottcagttc ttagagcggg ttaagtcttc 420  
agccggggct attgtgtttg ttgtggatag tgcagcattc cagcgagagg tgaaagatgt 480  
ggctgagttt ctgtatcaag tctcattga cagtatgggt ctgaagaata caccatcatt 540  
cttaatagcc tgcaataagc aagatatgtc aatggcaaaa tcagcaaagt taattcaaca 600  
gcagctggag aaagaactca acaccttacg agttaccgtt tctgctgccc ccagcacact 660  
gtacagttcc agcactgccc ctgctcagct ggggaagaaa ggcaaagagt ttgaattctc 720  
acagttgccc ctcaaagtgg agttcctgga gtgcagtgcc aagggtggaa gaggggacgt 780  
gggctctgct gacatccagg acttgagaaa atggctggct aaaattgcct gagaggcagc 840

00629469.072800

```

tctaaagcac aagacctgga tgtgtgacac acagtttttg aaaaaggctct gtggtagtct 900
ggagttgatg aggaaggggt acaagatgtg gttagaaaca tttctttgtt ctggaaacaa 960
agtactgttg aaaccagctt ggaatttttt tttttttttt ttttaagttc agttctccct 1020
tatggctgcc tttcaaacaa gtacctttta tctgatgcct gtatcttccc tttgttaagg 1080
tgtaacttga tgtagggtca aggtttttgt gacaacaggc agactccaca cagagaggat 1140
atgatgagaa tatggccatc acctgaaaag ttttcttata ttctgtgctt ttggtccctg 1200
gaaacaaatc cgcctatgta tgaagctagt tgatttccag ttgcactatt tccagttgcc 1260
totgaagttc acaggcaata cattgtctag tcctttgcga atttctctga tttgtgggca 1320
cagttatgaa gtttcccccac atgtgaagac aggtacaaaa tagcagagcc aagcagacag 1380
tgggtctatt cttcattagc tcagtgaact gtccacactc gtcttagcac ttacgtttca 1440
aaagcttgtc acaaaccctt ggagtcattc ccagataata gaactggaaa tgataaatcc 1500
cctaatagcca agggctctagt gtgttcttag tgggtataact ggggaagtgtg tggagattta 1560
gggtgctgctc tgcgtgctctg gatggctgaa ggctcctggg ccatcttcat gtgctgcttg 1620
aagagctcct attttgtact cctggctaga atgctgtgga acaaatacaa agtgaaaaaa 1680
gttctctgta gatttctgaa gtgcataattc attgatgcca agaaaaaaaa aaagttgcct 1740
ttttg

```

<210> 11414  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<400> 11414

Met	Ala	Ser	Ala	Asp	Ser	Arg	Arg	Leu	Ala	Asp	Gly	Gly	Gly	Ala	Gly
1				5					10					15	
Gly	Thr	Phe	Gln	Pro	Tyr	Leu	Asp	Thr	Leu	Arg	Gln	Glu	Leu	Gln	Gln
			20					25					30		
Thr	Asp	Pro	Thr	Leu	Leu	Ser	Val	Val	Val	Ala	Val	Leu	Ala	Val	Leu
			35				40					45			
Leu	Thr	Leu	Val	Phe	Trp	Lys	Leu	Ile	Arg	Ser	Arg	Arg	Ser	Ser	Gln
			50			55					60				
Arg	Ala	Val	Leu	Leu	Val	Gly	Leu	Cys	Asp	Ser	Gly	Lys	Thr	Leu	Leu
			65			70			75					80	
Phe	Val	Arg	Leu	Leu	Thr	Gly	Leu	Tyr	Arg	Asp	Thr	Gln	Thr	Ser	Ile
			85					90						95	
Thr	Asp	Ser	Cys	Ala	Val	Tyr	Arg	Val	Asn	Asn	Asn	Arg	Gly	Asn	Ser
			100				105					110			
Leu	Thr	Leu	Ile	Asp	Leu	Pro	Gly	His	Glu	Ser	Leu	Arg	Leu	Gln	Phe
			115				120					125			
Leu	Glu	Arg	Phe	Lys	Ser	Ser	Ala	Gly	Ala	Ile	Val	Phe	Val	Val	Asp
			130				135				140				
Ser	Ala	Ala	Phe	Gln	Arg	Glu	Val	Lys	Asp	Val	Ala	Glu	Phe	Leu	Tyr
					150				155					160	
Gln	Val	Leu	Ile	Asp	Ser	Met	Gly	Leu	Lys	Asn	Thr	Pro	Ser	Phe	Leu
			165						170					175	
Ile	Ala	Cys	Asn	Lys	Gln	Asp	Ile	Ala	Met	Ala	Lys	Ser	Ala	Lys	Leu
			180					185					190		

0096269469.072800

Ile	Gln	Gln	Gln	Leu	Glu	Lys	Glu	Leu	Asn	Thr	Leu	Arg	Val	Thr	Arg
	195					200					205				
Ser	Ala	Ala	Pro	Ser	Thr	Leu	Tyr	Ser	Ser	Ser	Thr	Ala	Pro	Ala	Gln
	210					215					220				
Leu	Gly	Lys	Lys	Gly	Lys	Glu	Phe	Glu	Phe	Ser	Gln	Leu	Pro	Leu	Lys
225					230					235					240
Val	Glu	Phe	Leu	Glu	Cys	Ser	Ala	Lys	Gly	Gly	Arg	Gly	Asp	Val	Gly
				245					250					255	
Ser	Ala	Asp	Ile	Gln	Asp	Leu	Glu	Lys	Trp	Leu	Ala	Lys	Ile	Ala	
			260					265					270		

<210> 11415  
 <211> 1843  
 <212> DNA  
 <213> Homo sapiens

<400> 11415

actctgctgc	cggtttctcg	gagcggcgct	gggcgaccag	agcagggtcg	agatgtccta	60
catcccgggc	cagccggtca	ccgccgtggt	gcaaagagtt	gaaattcaca	agctgcgtca	120
aggtgagaac	ttaatcctgg	gtttcagcat	tggagggtgga	atcgaccagg	acccttccca	180
gaatcccttc	tctgaagaca	agacggacaa	ggtgagggggg	tctgggggtcc	tgggaccgct	240
ccatggggca	caggggcctg	agatgggtggg	tctctgcttc	ctgggcctgc	atggaaggaa	300
cagacttcat	ctctcaaacc	atgctctcta	agaaggcatc	ggaagtgacc	tagtgagaat	360
aaggacgggt	ggggtgagga	agggctgctc	agacagagcc	caggaggagc	aggaggcggc	420
catcagcagg	gccggtgcat	ggtggtgcag	caactctgcc	ccggctctct	cagaacagtc	480
ctcactgacc	atatgtgctg	ggagaggctg	ggtgcaggga	cagagggacg	gctgagaatg	540
tgccatgctg	gcttccgctg	tgtgataagg	ggccagtcca	gtgaccacag	ggcttgactt	600
gggctgcccc	tttccagggt	atttatgtca	cacgggtgtc	tgaaggaggc	cctgctgaaa	660
tcgctgggct	gcagattgga	gacaagatca	tgcaggtaac	aggtgtccca	aaggaggaga	720
aataagggtt	gggcaagcag	gtctgaagca	cttgggggtg	gggagctgcc	ccagcctccc	780
agctggggaga	gactcactgc	agccaattgg	gaaccatac	tggcattgcc	ccagaggacg	840
ctggctttct	ctcctgtgtg	tctcagccac	agtgtttggt	gtctcccagc	cctgggatgt	900
taggctgggg	gcctacttga	atgacctggg	ccccaaaagc	cctctgcttc	cagatcccag	960
agggcggggga	gctgaggtga	gcctgtgttc	tctcctgggg	ccagggtgaac	ggctgggaca	1020
tgaccatggt	cacacacgac	caggcccgca	agcggctcac	caagcgctcg	gaggaggtgg	1080
tgcgtctgct	ggtgacgcgg	cagtcgctgc	agaaggcogt	gcagcagtc	atgctgtcct	1140
agcagccacc	accatctgcg	actcctgcct	gccgcctctc	tgtacagtaa	cgccacttcc	1200
acactctgtc	cccatctggc	ttctgtctgac	cgctggggccc	cagctcagaa	gggctatagc	1260
tggtcccaga	ggcctggcct	ggccttccct	cccttctccc	atccctggcc	tggggcctct	1320
gggaccagct	ttctctcctg	gacaccgagg	attggaaata	agggcctgga	gctgagtagt	1380
agccagtctg	ctgtgaccac	aggctcaggt	ccgacctgct	tgcttgacca	cagcagtggc	1440
tgggcaagtg	ggaaccacta	tctcttgagg	gccccaaaaa	gctgggaaat	gctggaggaa	1500
ccaggccttt	cccgtttttg	cctggctgca	gggttcggct	ccgcccctgc	ccccagccc	1560
tcgtgtgtcc	acaccgcagt	gcctctgccc	ctogggggac	tggacacaca	tcctgccaga	1620
ggcgctacga	agctttgccc	agatgaagcc	aggtgggctc	cgcgttcact	cccactctcc	1680
cgaggggtgc	tggcctcccc	agggtttgcc	ttcttaocgga	tttagacgag	gttcgaggct	1740
cacctatcag	ggcagctctc	aggattgtca	ttttcctott	tgccgtgtggg	tttaactttt	1800

gtatTTTTTT aatcacaagt ttgatacaaa atgtTTTTTat cgt

1843

<210> 11416

<211> 2103

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (102).. (2021)

<400> 11416

aaaaaccatg	gatcctggag	gtgccgcgga	acactgcttg	tgcctgggc	aaccggagag	60
gacgaagcag	gacctagggtg	gcggcgggtg	taccggctgc	aatgggtgtcc	aatcccgtgc	120
atggcttgcc	ctttcttccg	ggcacgtcct	ttaaggactc	tacgaaaaca	gccttcaca	180
gaagtcagac	gctgagctac	aggaacggct	atgcaattgt	tcgacgtcca	acagttggga	240
taggcggaga	ccggctccag	ttcaaccagc	tgtcccaggc	tgagctggat	gagttggcca	300
gtaaggcacc	agtcttaact	tatggccaac	ctaaacaagc	cccacctgcg	gattttattc	360
ctgcgcgatgt	ggcctttgac	aaaaaggtac	tgaaatttga	tgcctatttc	caagaagatg	420
ttcctatgtc	aactgaggaa	cagtatagga	tccgtcagggt	gaacatttac	tattatctag	480
aagatgacag	catgtctgtc	atagagcctg	ttgtagaaaa	ttctggaatc	cttcaaggca	540
agttaataaaa	acgccagcgg	ctagccaaga	atgaccgggg	tgaccattac	cattggaaaag	600
acctaaatcg	aggaataaac	atcacaattt	atggcaaaaac	tttccgcgtt	gttgactgtg	660
accaattcac	acaggtatit	ttagaaagcc	aaggaattga	gttaaatcca	ccagagaaga	720
tggctcttga	tccttacact	gaactccgaa	aacagcctct	tcgtaagtat	gtcaccat	780
cagactttga	tcaactcaag	caattttctca	cctttgacaa	acaggtcctt	cgatttctatg	840
caatctggga	tgatacagac	agcatgtatg	gtgaatgtcg	gacctacatc	attcattact	900
atcttatgga	tgatacgggtg	gaaattcgag	aggtccacga	acggaatgat	gggagagatc	960
ctttcccaact	cctaataaac	cgccagcgtg	tgcccaaaagt	tttgggtgga	aatgcaaaga	1020
acttccctca	gtgtgtgcta	gaaatctctg	accaagaagt	gttggaatgg	tatactgcta	1080
aagacttcat	tgittgggaag	tacttacta	tccttgggag	aactttcttc	atttatgatt	1140
gtgatccatt	tactcgacgg	tattacaaag	agaagtttgg	aatcactgat	ttaccacgta	1200
ttgatgtgag	caagcgggaa	ccacctccag	taaaacagga	gttgccctct	tataacggtt	1260
ttggactagt	ggaagattct	gctcagaatt	gttttactct	cattccaaaa	gtccaaaaaa	1320
aagacgttat	taaaatgctg	gtgaatgata	acaaggtgct	tcgttatitg	gctgtactgg	1380
aatcccccat	cccagaagac	aaagaccgca	gatttgtctt	ctcttacttt	ctagctaccg	1440
acatgatcag	tatctttgag	cctcctgttc	gcaattctgg	tatcattggg	ggcaagtacc	1500
ttggcaggac	taaagtgtgt	aaaccatact	ctacagtggg	caacctgtc	tactatggcc	1560
ccagtgactt	cttcattggt	gctgtgattg	aagtgtttgg	tcaccggttc	atcatccttg	1620
atacagacga	gtatgttttg	aaatacatgg	agagcaacgc	tgcccagtat	tcaccagaag	1680
cactcgcgtc	aattcagaac	catgtccgaa	agcgagaagc	gcctgtcca	gaagcagaaa	1740
gcaagcaaac	tgaaaaggat	ccaggcgtgc	aggaattgga	agcattaata	gacacaattc	1800
agaagcaact	gaaagatcac	tcattgcaaag	acaacattcg	tgaggcattt	caaatttatg	1860
acaaggaagc	ttcaggatat	gtggacagag	acatgttctt	taaaatctgt	gaatcgctta	1920
acgtcccagt	ggatgactcc	ttggttaagg	agttaatcag	gatgtgctct	catggagaag	1980
gcaaaattaa	ctactataac	tttgttcgtg	ctttctcaaa	ctgacctgct	gatgagaaaa	2040
tgcaagacaa	tttttgatac	tggaactatg	ctttgaaata	caccttacac	tottcatagt	2100



ggc

2103

<210> 11417  
 <211> 640  
 <212> PRT  
 <213> Homo sapiens

<400> 11417

Met	Val	Ser	Asn	Pro	Val	His	Gly	Leu	Pro	Phe	Leu	Pro	Gly	Thr	Ser
1				5					10					15	
Phe	Lys	Asp	Ser	Thr	Lys	Thr	Ala	Phe	His	Arg	Ser	Gln	Thr	Leu	Ser
			20					25					30		
Tyr	Arg	Asn	Gly	Tyr	Ala	Ile	Val	Arg	Arg	Pro	Thr	Val	Gly	Ile	Gly
		35					40					45			
Gly	Asp	Arg	Leu	Gln	Phe	Asn	Gln	Leu	Ser	Gln	Ala	Glu	Leu	Asp	Glu
	50					55					60				
Leu	Ala	Ser	Lys	Ala	Pro	Val	Leu	Thr	Tyr	Gly	Gln	Pro	Lys	Gln	Ala
65					70					75					80
Pro	Pro	Ala	Asp	Phe	Ile	Pro	Ala	His	Val	Ala	Phe	Asp	Lys	Lys	Val
			85						90					95	
Leu	Lys	Phe	Asp	Ala	Tyr	Phe	Gln	Glu	Asp	Val	Pro	Met	Ser	Thr	Glu
			100					105						110	
Glu	Gln	Tyr	Arg	Ile	Arg	Gln	Val	Asn	Ile	Tyr	Tyr	Tyr	Leu	Glu	Asp
	115					120						125			
Asp	Ser	Met	Ser	Val	Ile	Glu	Pro	Val	Val	Glu	Asn	Ser	Gly	Ile	Leu
	130					135					140				
Gln	Gly	Lys	Leu	Ile	Lys	Arg	Gln	Arg	Leu	Ala	Lys	Asn	Asp	Arg	Gly
145					150					155					160
Asp	His	Tyr	His	Trp	Lys	Asp	Leu	Asn	Arg	Gly	Ile	Asn	Ile	Thr	Ile
			165						170					175	
Tyr	Gly	Lys	Thr	Phe	Arg	Val	Val	Asp	Cys	Asp	Gln	Phe	Thr	Gln	Val
			180					185						190	
Phe	Leu	Glu	Ser	Gln	Gly	Ile	Glu	Leu	Asn	Pro	Pro	Glu	Lys	Met	Ala
	195						200					205			
Leu	Asp	Pro	Tyr	Thr	Glu	Leu	Arg	Lys	Gln	Pro	Leu	Arg	Lys	Tyr	Val
	210					215					220				
Thr	Pro	Ser	Asp	Phe	Asp	Gln	Leu	Lys	Gln	Phe	Leu	Thr	Phe	Asp	Lys
225					230					235					240
Gln	Val	Leu	Arg	Phe	Tyr	Ala	Ile	Trp	Asp	Asp	Thr	Asp	Ser	Met	Tyr
			245						250					255	
Gly	Glu	Cys	Arg	Thr	Tyr	Ile	Ile	His	Tyr	Tyr	Leu	Met	Asp	Asp	Thr
			260					265					270		
Val	Glu	Ile	Arg	Glu	Val	His	Glu	Arg	Asn	Asp	Gly	Arg	Asp	Pro	Phe
	275						280					285			
Pro	Leu	Leu	Met	Asn	Arg	Gln	Arg	Val	Pro	Lys	Val	Leu	Val	Glu	Asn
	290					295					300				
Ala	Lys	Asn	Phe	Pro	Gln	Cys	Val	Leu	Glu	Ile	Ser	Asp	Gln	Glu	Val

09629469.072800

-4883/13211-

305					310				315				320		
Leu	Glu	Trp	Tyr	Thr	Ala	Lys	Asp	Phe	Ile	Val	Gly	Lys	Ser	Leu	Thr
				325					330					335	
Ile	Leu	Gly	Arg	Thr	Phe	Phe	Ile	Tyr	Asp	Cys	Asp	Pro	Phe	Thr	Arg
			340					345					350		
Arg	Tyr	Tyr	Lys	Glu	Lys	Phe	Gly	Ile	Thr	Asp	Leu	Pro	Arg	Ile	Asp
		355					360					365			
Val	Ser	Lys	Arg	Glu	Pro	Pro	Pro	Val	Lys	Gln	Glu	Leu	Pro	Pro	Tyr
	370					375				380					
Asn	Gly	Phe	Gly	Leu	Val	Glu	Asp	Ser	Ala	Gln	Asn	Cys	Phe	Thr	Leu
385				390					395						400
Ile	Pro	Lys	Ala	Pro	Lys	Lys	Asp	Val	Ile	Lys	Met	Leu	Val	Asn	Asp
			405					410						415	
Asn	Lys	Val	Leu	Arg	Tyr	Leu	Ala	Val	Leu	Glu	Ser	Pro	Ile	Pro	Glu
		420						425					430		
Asp	Lys	Asp	Arg	Arg	Phe	Val	Phe	Ser	Tyr	Phe	Leu	Ala	Thr	Asp	Met
		435					440					445			
Ile	Ser	Ile	Phe	Glu	Pro	Pro	Val	Arg	Asn	Ser	Gly	Ile	Ile	Gly	Gly
	450					455					460				
Lys	Tyr	Leu	Gly	Arg	Thr	Lys	Val	Val	Lys	Pro	Tyr	Ser	Thr	Val	Asp
465					470					475					480
Asn	Pro	Val	Tyr	Tyr	Gly	Pro	Ser	Asp	Phe	Phe	Ile	Gly	Ala	Val	Ile
			485					490					495		
Glu	Val	Phe	Gly	His	Arg	Phe	Ile	Ile	Leu	Asp	Thr	Asp	Glu	Tyr	Val
		500					505					510			
Leu	Lys	Tyr	Met	Glu	Ser	Asn	Ala	Ala	Gln	Tyr	Ser	Pro	Glu	Ala	Leu
		515				520						525			
Ala	Ser	Ile	Gln	Asn	His	Val	Arg	Lys	Arg	Glu	Ala	Pro	Ala	Pro	Glu
	530					535				540					
Ala	Glu	Ser	Lys	Gln	Thr	Glu	Lys	Asp	Pro	Gly	Val	Gln	Glu	Leu	Glu
545					550					555					560
Ala	Leu	Ile	Asp	Thr	Ile	Gln	Lys	Gln	Leu	Lys	Asp	His	Ser	Cys	Lys
			565					570					575		
Asp	Asn	Ile	Arg	Glu	Ala	Phe	Gln	Ile	Tyr	Asp	Lys	Glu	Ala	Ser	Gly
		580					585					590			
Tyr	Val	Asp	Arg	Asp	Met	Phe	Phe	Lys	Ile	Cys	Glu	Ser	Leu	Asn	Val
		595					600					605			
Pro	Val	Asp	Asp	Ser	Leu	Val	Lys	Glu	Leu	Ile	Arg	Met	Cys	Ser	His
	610					615					620				
Gly	Glu	Gly	Lys	Ile	Asn	Tyr	Tyr	Asn	Phe	Val	Arg	Ala	Phe	Ser	Asn
625					630					635					640

<210> 11418  
 <211> 2682  
 <212> DNA  
 <213> Homo sapiens

008270" 69462960

<400> 11418

aattactatg	aaattctggg	agtttctcga	gatgctagt	acgaagagct	taagaaagct	60
tacagaaaac	tcgccctgaa	atttcaccct	gacaagaact	gtgctcctgg	agcaacagat	120
gctttcaaag	caataggaaa	tgcatTTtgca	gtcctgagca	atcctgataa	gagacttcgc	180
tatgatgaat	acggagatga	acaggtgact	ttcactgccc	ctcgagccag	accttataat	240
tattacaggg	attttgaagc	tgacatcact	ccagaagagc	tgttcaacgt	cttctttgga	300
ggacattttc	ctacaggaaa	tattcatatg	ttttcaaattg	tgacagatga	cacttactat	360
taccgtcgac	ggcaccgaca	tgagaggaca	cagactcaga	aggaggagga	agaagagaaa	420
cctcagacta	catattctgc	atttattcag	ctacttccag	ttcttTgtgat	tgtgattata	480
tctgtcatta	ctcagctgct	ggctactaat	cccccatata	gtctgttcta	taaatcgacc	540
ttgggctaca	ccatttctag	agaaactcat	aacctgcagg	tgcccttactt	tgtggataaa	600
aactttgaca	aggcctacag	aggagcttct	ctgcatgact	tggagaaaaac	aatagagaag	660
gattacattg	attatatcca	gactagtTgt	tggaggagga	aacaacaaaa	gtcagagctg	720
acaaatttgg	caggattata	cagagatgaa	cgattgaaac	agaaagcaga	gtcgtgaaa	780
cttgaaaact	gtgagaaaact	ttccaaactc	attggcctac	gcagaggTgg	ctgagaggat	840
aatggtccta	cgcagggctg	gggttttTgt	actTgttct	atttatgttc	ctgattccat	900
tttataatac	aaaactaggt	aatgatgaac	actttactat	ttgctaactt	cgTtggtTgg	960
gcagagtggc	aggagcatgg	gcacgagagc	cagatgtgtc	ttcacaggat	ccttcctggg	1020
gagtggctcc	agggaccagg	agtagttcat	ctaagtTaaa	ttaatggcaa	ggcattggat	1080
tccgtctccc	tgctccatgc	ctaccctgcc	tatgtgaatg	gagttcaggg	catcccagag	1140
cagatccatg	ctttcttct	tcttcccttc	ttcagtgaag	tcttaagaac	caggcattcc	1200
taggcttagc	caaagcttaa	tattagtTat	ttacactgtc	taccaagaat	tatacctctc	1260
ccttcattag	agtcatcatc	tccgccaaaga	tttagccttt	ggaacatgtt	cctgcccagc	1320
tttccatttt	ctaggggaat	atggagaaaat	ttaaactatt	gtagtcaata	gttttctatt	1380
attccaatct	ctgctcagtt	agtagcatta	gcaaactgcc	taattttgaga	ttcctttatt	1440
tccttaaccc	tctctccttt	agagagtcca	gaaattaaaa	ctactgagca	gcactctggag	1500
gcggggggcca	gggcgaaggt	ataatgcaag	accgagcctc	atctcctcca	cgaagcctcc	1560
ctactccatc	atagaaccca	gagaatgtcc	cttcggTcat	ttccctcag	tatcatcatt	1620
ggtgtcatcg	cacttaggct	gagttcctac	atcccacaga	ggcagatggT	cagacccagg	1680
aggaggcatt	gccagctctc	caggctgttt	gctcaagcct	agagatagag	gagacagatc	1740
ctctctcctt	ggatatgggg	gtctagcttt	ggccccagca	gccactttgt	ttaacccagt	1800
atcctatagt	ttgtgatttg	agatgatttt	tcatctattc	aacattttatt	gagtgcctac	1860
tataaaaagca	ggggctctca	cacatatttt	cttactTaaa	cctcctcaca	actctgaagt	1920
agatgtatta	tccctggttc	tatgaatgag	aacattTggcc	cagagaggat	gacccaggTc	1980
ttgtagtggc	agagcaagac	ggtaggctga	gtgtcaagta	gaaagtggag	agcatcctca	2040
tgtctcaggt	gattctagcc	agactTggcaa	agcagaacct	ttcccagagga	tgctctcgTc	2100
ctccccaacc	ccatgacccc	tcatcttttc	tgtTggcaatc	ttgcatctgt	tcaggacaac	2160
atccctgctg	ctcttttagga	agcaggaccc	tgtctaacat	aaattctgta	cacaaaataa	2220
gaggTccctc	acaggcaggc	agccctccac	tggTgactag	gaagaattca	gtcactgcct	2280
gggctgtgtg	gttctTggcc	ttcctgtTgga	gctgagctgc	ctgaattatc	atgactctga	2340
actTggaagg	atcattaagt	gactgtagcc	tacactccat	gcttccTtca	tattTggaaga	2400
aaagtTtctg	gtagagagTc	ggccgggtTgc	actTggtcaa	gcctgtaatc	ccagcacttt	2460
gggaggctgt	ggcaggtTgga	tcacctgagg	tcaggagtTc	aagaccagcc	cggccaacac	2520
agtTgaaaccc	catctctact	aataatacaa	aaattagcca	ggtgtTggTgg	cacatgcctg	2580
tagtcccagc	tactcgggag	gctgaggcat	gagaatcgct	gcaactTgca	aggtTggaggT	2640
tacagtgagc	Tgaaatcacg	ccactgcact	ccactccatc	tc		2682

008220" 69462960

<210> 11419  
<211> 2307  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (114).. (953)

<400> 11419

```
gtgactgtgg agtttgaatt ggggtggcggg tgactgtaga gccgctctct ctcaactggca 60
cagcgagggt ttgctcagcc cttgtctcgg gaccgcagcc tccgccgagc gccatggctc 120
ctaggaaggg cagtagtcgg gtggccaaga ccaactcctt acggaggcgg aagctcgctc 180
cctttctgaa agacttcgac cgtgaagtgg aaatacgaat caagcaaatt gagttagaca 240
ggcagaacct cctcaaggag gtggataacc tctacaacat cgagatcctg cggctcccca 300
aggctctgag cgagatgaac tggcttgact acttcgcctt tggaggaaac aaacaggccc 360
tggaagaggc ggcaacagct gacctggata tcaccgaaat aaacaaacta acagcagaag 420
ctattcagac acccctgaaa tctgccaaaa cagcaaaggc aatacaggta gatgaaatga 480
tagtggaaga ggaagaagaa gaagaaaatg aacgtaagaa tcttcaaact gcaagagtca 540
aaaggtgtcc tccatccaag aagagaactc agtccatata aggaaaagga aaagggaata 600
ggtcaagccg tgctaactct gttaccccag ccgtggggccg attggagggt tccatgggtc 660
aaccaactcc aggcctgaca cccagggttg actcaagggt cttcaagacc cctggcctgc 720
gtactccagc agcaggagag cggattttaca acatctcagg gaatggcagc cctcttgctg 780
acagcaaaga gatcttcctc actgtgccag tggggcggcgg agagagcctg cgattattgg 840
ccagtgaact gcagaggcac agtattgccc agctggatcc agaggccttg ggaaacatta 900
agaagctctc caaccgtctc gcccaaatct gcagcagcat accgaccac aaatgagaca 960
ccaaagttag caggatggac ttttaattgg cacttctggg accctgaaga gacttcttcc 1020
cttcaggctt attgttttag tgtgaagttc cagagcaagg agccatgttc ctctaaggga 1080
attcaggaat tcagacgtgc tagtcccaca ccagttagggt agagctgtct gttcacctc 1140
ccatcccagc tgatcccagt cactgcttgc tggggccatg ccattggaagc tccccatcag 1200
tctcccagct gaatcctccc tgctctctga gctgctgctt tttgcctcct gcaactcaac 1260
atcctcttca ccctgccctg cctgcagttg agggggcgaa gaagaacctt gtgttctcag 1320
gaagactgcc tccaccaccg ctaccagag aacctctgca tctggcattt ctgctctcta 1380
tgcttgagac cgggagggtt aggcctcagat aagttagctc tgggcatga gagggtaggt 1440
ccagaagggt gggggaactg tacagatcag cagagcagga cagttggcag cagtgaacct 1500
agtagggaac atgtccgtct accctctcgc actcatgaca cctcccccta ccagccctcc 1560
tcttctcct cctcctcctc ctgtgggagg tggtcagtgg gacttaggga tctttacct 1620
gctgtgcca gtagttctga agtctgcttg tggagcagtg ttttatgttt atccctgttt 1680
actgaagacc aaatactggt ttggagacaa ctccatgtc ttgctcttct acctccctag 1740
ttagtggaat tttggataag ggaactgtag ggcccagatt ctggagggtt tatgtcattg 1800
gccacagaat aactgtctct aagctatcca tgggtccagt gtccctgcca agtctgtaga 1860
cttcagagag cacttctctc ttatgggggt catgggaaca ggggcgggtg tgacttgctt 1920
ggtggcctca tccatgtgt gcctgtgcct ggggcatgga ctttgtaag cagagtcagc 1980
agttaggtcc tcattctcca gccagcctct ctgccctgga gaatcatgtg ctatgttcta 2040
agaatttgag aactagagtc ctcatcccca ggcttgaagg cacatggctt tctcatgtag 2100
ggctctctgt ggtatttgtt attattttgc aacaagacca ttttagtaaa acagtcctgt 2160
tcaagttgta ttcttttaag ttcttttatt ctcttttccc tgagattttt gtatatattg 2220
ttctgagtaa tggatcttt gagctgattg ttctaatacag agctgggtacc tactttcaat 2280
```



<211> 2430  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (184).. (2223)

<400> 11421

```
cttccgggtg agggctcctgc agcccggtgaa tccctgggtcc cgccgagact tggacctggt 60
gcgaactgga ggcgaagcgg gtgcaccac aacctatagg aagggtggc ggcgagctct 120
gagcactcgg gcgtcggagg gaacgctctg ctttcaacac tcttggccct ttctcaagag 180
aacatgaaaa tgaaaaaatt tcagatacca gtttcattcc aggacctgac tgtgaacttc 240
acccaagagg aatggcagca actggaccct gctcagaggc tctgttacag ggatgtgatg 300
ctggagaact acagcaactt ggtctctgtg gggatcatg ttagcaaacc agatgtgatt 360
ttcaaattgg agcaaggaga agagccatgg atagtggagg aattctcaaa tcagaactac 420
ccagacattg atgatgcctt agagaagaac aaggaaatcc aagataaaca tttgacacaa 480
actgtattct tcagcaacaa aacactgatt acagaaagag agaattgatt tggggaaaca 540
cttaattctg gcatgaatag tgttccctca agaaaaatgc cctataaatg taatccagga 600
ggaaacagtt tgaaaactaa ttcagaagta attgttgcaa agaaaagcaa agaaaacaga 660
aagattcctg atggatacag tggatttggg aagcatgaga aaagtcattt gggaatgaaa 720
aaatacagat acaatccaat gaggaagacc agcaatcaaa acgaaaatct tattctgcac 780
cagaacattc agattttgaa acaaccgttt gactataata aatgtgggaa aaccttcttc 840
aagagggcaa ttctcattac acaaaagggg agacagactg aaaggaaacc aatgaatgt 900
aatgaatgta ggaaaacctt ttctaagaga tctaccctca ttgtacatca gagaattcat 960
acaggggaga aaccgtatgt ttgtagtgt ttaggaaaa cttttcgtgt gaagacaagc 1020
ctcactcgac accgaagaat tcatactgga gagagaccct atgaatgcag tgaatgcagg 1080
aaaaccttca ttgacaaatc tgcccttatt gtacaccaga aaattcatgg aggggagaaa 1140
tcctatgagt gtaatgaatg tggaaagacc ttttttcgga agtcagccct ggctgaacat 1200
ttcaggtcac acacagggga gaagccttac gaatgcaagg aatgtggaaa tgccttcagc 1260
aagaaatcgt atcttgttgt acatcaaaga actcacagag gagagaagcc aaatgaatgt 1320
aaggaatgtg ggaaaacctt cttctgtcag tcagccctta ctgcgcatca gagaattcac 1380
acaggggaaa aaccctatga atgtagttaa tgtgagaaaa ccttcttttg tcaatctgcc 1440
ctcaatgtgc atcgaagagg tcatacagga gagaagccct atgaatgcag tcaatgtgga 1500
aaatttttat gtacgaaatc agccctcatt gcacatcaga taactcatag aggaaagaag 1560
tcttatgaat gtaatgaatg tgggaaattt ttctgccata agtcaacact cactatacat 1620
cagagaacac acacaggaga gaaacatggt gtgtttaata aatgtggtag aatctccatt 1680
gtgaagtcaa actgcagtca gtgtaagaga atgaacacaa aggagaatct ttatgagtgt 1740
agtgaacatg ggcacgccgt cagcaaaaac tcacacctca ttgtacatca gagaaactata 1800
tgaggagagac catatgaatg caatgaatgt gggagaacct actgcaggaa gtcagccctg 1860
actcaccatc agagaacaca cacaggacag agaccctatg agtgtaatga atgtgggaaa 1920
accttctgtc agaagttctc ctttgttgaa catcagcgaa ctccactgg ggagaaaacca 1980
tatgaatgta atgaatgtgg gaaatccttc tgccataagt cagccttcag agtccataga 2040
agaattcaca caggagagaa accatatgaa tgtaatcaat gtgggaaaaac ctaccgtcgc 2100
ctgtggactc tcaactgaaca tcagaaaata cacacaggag agaaaacctta tgaatgtaac 2160
aaatgtgaga aaacatttcg ccacaaatca aactttcttt tacatcagaa atcccacaag 2220
gaataagttc caacaaagta ataaattcca acaaagcaac aaatcaaata acttacacaa 2280
tgctaaactg tgagtatgta tagaggagta aaatcttata aatgtaatga atatggaaaa 2340
```

-4888/13211-

tttttctgcc ataagtcaac cctcaatgta acatcagaga aatcatgtag gaaagaaata 2400  
atttgtttaa taaatgtatt attcattgtg 2430

<210> 11422

<211> 680

<212> PRT

<213> Homo sapiens

<400> 11422

Met	Lys	Met	Lys	Lys	Phe	Gln	Ile	Pro	Val	Ser	Phe	Gln	Asp	Leu	Thr
1				5					10					15	
Val	Asn	Phe	Thr	Gln	Glu	Glu	Trp	Gln	Gln	Leu	Asp	Pro	Ala	Gln	Arg
			20					25					30		
Leu	Leu	Tyr	Arg	Asp	Val	Met	Leu	Glu	Asn	Tyr	Ser	Asn	Leu	Val	Ser
		35					40					45			
Val	Gly	Tyr	His	Val	Ser	Lys	Pro	Asp	Val	Ile	Phe	Lys	Leu	Glu	Gln
	50					55					60				
Gly	Glu	Glu	Pro	Trp	Ile	Val	Glu	Glu	Phe	Ser	Asn	Gln	Asn	Tyr	Pro
65					70					75					80
Asp	Ile	Asp	Asp	Ala	Leu	Glu	Lys	Asn	Lys	Glu	Ile	Gln	Asp	Lys	His
				85					90					95	
Leu	Thr	Gln	Thr	Val	Phe	Phe	Ser	Asn	Lys	Thr	Leu	Ile	Thr	Glu	Arg
			100					105					110		
Glu	Asn	Val	Phe	Gly	Glu	Thr	Leu	Asn	Leu	Gly	Met	Asn	Ser	Val	Pro
		115					120					125			
Ser	Arg	Lys	Met	Pro	Tyr	Lys	Cys	Asn	Pro	Gly	Gly	Asn	Ser	Leu	Lys
	130					135					140				
Thr	Asn	Ser	Glu	Val	Ile	Val	Ala	Lys	Lys	Ser	Lys	Glu	Asn	Arg	Lys
145					150					155					160
Ile	Pro	Asp	Gly	Tyr	Ser	Gly	Phe	Gly	Lys	His	Glu	Lys	Ser	His	Leu
				165				170						175	
Gly	Met	Lys	Lys	Tyr	Arg	Tyr	Asn	Pro	Met	Arg	Lys	Ala	Ser	Asn	Gln
			180					185					190		
Asn	Glu	Asn	Leu	Ile	Leu	His	Gln	Asn	Ile	Gln	Ile	Leu	Lys	Gln	Pro
		195					200					205			
Phe	Asp	Tyr	Asn	Lys	Cys	Gly	Lys	Thr	Phe	Phe	Lys	Arg	Ala	Ile	Leu
	210					215					220				
Ile	Thr	Gln	Lys	Gly	Arg	Gln	Thr	Glu	Arg	Lys	Pro	Asn	Glu	Cys	Asn
225					230					235					240
Glu	Cys	Arg	Lys	Thr	Phe	Ser	Lys	Arg	Ser	Thr	Leu	Ile	Val	His	Gln
				245					250					255	
Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Val	Cys	Ser	Asp	Cys	Arg	Lys
			260					265					270		
Thr	Phe	Arg	Val	Lys	Thr	Ser	Leu	Thr	Arg	His	Arg	Arg	Ile	His	Thr
		275					280					285			
Gly	Glu	Arg	Pro	Tyr	Glu	Cys	Ser	Glu	Cys	Arg	Lys	Thr	Phe	Ile	Asp
	290					295					300				

09629469-072800

Lys Ser Ala Leu Ile Val His Gln Lys Ile His Gly Gly Glu Lys Ser  
 305 310 315 320  
 Tyr Glu Cys Asn Glu Cys Gly Lys Thr Phe Phe Arg Lys Ser Ala Leu  
 325 330 335  
 Ala Glu His Phe Arg Ser His Thr Gly Glu Lys Pro Tyr Glu Cys Lys  
 340 345 350  
 Glu Cys Gly Asn Ala Phe Ser Lys Lys Ser Tyr Leu Val Val His Gln  
 355 360 365  
 Arg Thr His Arg Gly Glu Lys Pro Asn Glu Cys Lys Glu Cys Gly Lys  
 370 375 380  
 Thr Phe Phe Cys Gln Ser Ala Leu Thr Ala His Gln Arg Ile His Thr  
 385 390 395 400  
 Gly Glu Lys Pro Tyr Glu Cys Ser Glu Cys Glu Lys Thr Phe Phe Cys  
 405 410 415  
 Gln Ser Ala Leu Asn Val His Arg Arg Gly His Thr Gly Glu Lys Pro  
 420 425 430  
 Tyr Glu Cys Ser Gln Cys Gly Lys Phe Leu Cys Thr Lys Ser Ala Leu  
 435 440 445  
 Ile Ala His Gln Ile Thr His Arg Gly Lys Lys Ser Tyr Glu Cys Asn  
 450 455 460  
 Glu Cys Gly Lys Phe Phe Cys His Lys Ser Thr Leu Thr Ile His Gln  
 465 470 475 480  
 Arg Thr His Thr Gly Glu Lys His Gly Val Phe Asn Lys Cys Gly Arg  
 485 490 495  
 Ile Ser Ile Val Lys Ser Asn Cys Ser Gln Cys Lys Arg Met Asn Thr  
 500 505 510  
 Lys Glu Asn Leu Tyr Glu Cys Ser Glu His Gly His Ala Val Ser Lys  
 515 520 525  
 Asn Ser His Leu Ile Val His Gln Arg Thr Ile Trp Glu Arg Pro Tyr  
 530 535 540  
 Glu Cys Asn Glu Cys Gly Arg Thr Tyr Cys Arg Lys Ser Ala Leu Thr  
 545 550 555 560  
 His His Gln Arg Thr His Thr Gly Gln Arg Pro Tyr Glu Cys Asn Glu  
 565 570 575  
 Cys Gly Lys Thr Phe Cys Gln Lys Phe Ser Phe Val Glu His Gln Arg  
 580 585 590  
 Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asn Glu Cys Gly Lys Ser  
 595 600 605  
 Phe Cys His Lys Ser Ala Phe Arg Val His Arg Arg Ile His Thr Gly  
 610 615 620  
 Glu Lys Pro Tyr Glu Cys Asn Gln Cys Gly Lys Thr Tyr Arg Arg Leu  
 625 630 635 640  
 Trp Thr Leu Thr Glu His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr  
 645 650 655  
 Glu Cys Asn Lys Cys Glu Lys Thr Phe Arg His Lys Ser Asn Phe Leu  
 660 665 670  
 Leu His Gln Lys Ser His Lys Glu  
 675 680

008220"69462960



<210> 11423  
 <211> 2410  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (7).. (2052)

<400> 11423  
 attctcatgg tcagtagcaa cttttgggtc aaatatccca aaacatgctc aaaagtagaa 60  
 cttttgttt caatattagg aaagtgcctt gaatcccctt ggacgacaaa agcgttgtct 120  
 gagacagcat gcgaagactc agaggaaaac aagcagagaa taacagggtc ccagactcta 180  
 ccaaagcatg tttctaccag cagtgatgaa gggagcccca gtgccagtac accaatgata 240  
 aataaaaactg gctttaaatt ttcagctgag aagcctgtga ttgaaagtcc cagcatgaca 300  
 atcctggata aaaaggatgg agagcaggcc aaagccctgt ttgagaaaagt gaggaagttc 360  
 cgtgcccattg tggaagatag tgacttgatc tataaactct atgtggtcca aacagttatc 420  
 aaaacagcca agttcatttt tttctctgct tatacagcga actttgtcaa cgcaatcagc 480  
 tttgaacacg tctgcaagcc caaagttgag catctgattg gttatgaggt atttgagtgc 540  
 acccacaata tggcttacat gttgaaaaag cttctcatca gttacatatc cattatttgt 600  
 gtttatggct ttatctgcct ctacactctc ttctgggtat tcaggatacc tttgaaggaa 660  
 tattctttcg aaaaagtcag agaagagagc agtttttagtg acattccaga tgtcaaaaaac 720  
 gattttgctg tccttcttca catggttagac cagtatgacc agctatatat caagcgtttt 780  
 ggtgtgttct tgtcagaagt tagtgaaaat aaacttaggg aaattagttt gaaccatgag 840  
 tggacatttg aaaaactcag gcagcacatt tcacgcaacg cccaggacaa gcaggagttg 900  
 catctgttca tgctgtcggg ggtgcccgat gotgtctttg acctcacaga cctggatgtg 960  
 ctaaagcttg aactaattcc agaagctaaa attcctgcta agattttctca aatgactaac 1020  
 ctccaagagc tccacctctg ccactgcctt gcaaaaagttg aacagactgc ttttagcttt 1080  
 ctctcgatc acttgagatg ccttcacgtg aagttcactg atgtggctga aattcctgcc 1140  
 tgggtgtatt tgctcaaaaa ccttcgagag ttgtacttaa taggcaattt gaactctgaa 1200  
 aacaataaga tgataggact tgaatctctc cgagagttgc ggcaccttaa gattctccac 1260  
 gtgaagagca atttgaccaa agttccctcc aacattacag atgtggctcc acatcttaca 1320  
 aagttagtca ttcataatga cggcactaaa ctcttggtac tgaacagcct taagaaaatg 1380  
 atgaatgtcg ctgagctgga actccagaac tgtgagctag agagaatccc acatgctatt 1440  
 ttcagcctct ctaatttaca ggaactggat ttaaagtcca ataacattcg cacaattgag 1500  
 gaaatcatca gtttccagca tttaaaacga ctgacttggt taaaattatg gcataacaaa 1560  
 attgtcacta ttctccctc tattacccat gtcaaaaact tggagtcact ttatttctct 1620  
 aacaacaagc tcgaatcctt accagtggca gtatttagtt tacagaaaact cagatgctta 1680  
 gatgtgagct acaacaacat ttcaatgatt ccaatagaaa taggattgct tcagaacctg 1740  
 cagcatctgc atatcactgg gaacaaagtg gacattctgc caaaacaatt gtttaaattg 1800  
 ataaaagttga ggactttgaa tctgggacag aactgcatca cctcactccc agagaaagt 1860  
 ggtcagctct cccagctcac tcagctggag ctgaagggga actgcttgga ccgcctgcca 1920  
 gccagctgg gccagtgtcg gatgctcaag aaaagcgggc ttgtttgtga agatcacctt 1980  
 tttgataccc tgccactcga agtcaaagag gcattgaatc aagacataaa tattcccttt 2040  
 gcaaatggga tttaaactaa gataatatat gcacagtgat gtgcaggaac aacttcctag 2100  
 attgcaagtg ctcacgtaca agttattaca agataatgca ttttaggagt agatacatct 2160

09629459.072800



	275		280		285	
Ser	Arg	Asn	Ala	Gln	Asp	Lys
	290					295
Gly	Val	Pro	Asp	Ala	Val	Phe
305				310		315
Leu	Glu	Leu	Ile	Pro	Glu	Ala
			325			330
Thr	Asn	Leu	Gln	Glu	Leu	His
			340			345
Gln	Thr	Ala	Phe	Ser	Phe	Leu
		355			360	
Lys	Phe	Thr	Asp	Val	Ala	Glu
	370				375	
Asn	Leu	Arg	Glu	Leu	Tyr	Leu
385				390		
Lys	Met	Ile	Gly	Leu	Glu	Ser
			405			
Leu	His	Val	Lys	Ser	Asn	Leu
			420			
Val	Ala	Pro	His	Leu	Thr	Lys
		435			440	
Leu	Leu	Val	Leu	Asn	Ser	Leu
	450				455	
Glu	Leu	Gln	Asn	Cys	Glu	Leu
465				470		
Leu	Ser	Asn	Leu	Gln	Glu	Leu
			485			
Ile	Glu	Glu	Ile	Ile	Ser	Phe
			500			
Lys	Leu	Trp	His	Asn	Lys	Ile
		515				
Val	Lys	Asn	Leu	Glu	Ser	Leu
		530			535	
Leu	Pro	Val	Ala	Val	Phe	Ser
545				550		
Ser	Tyr	Asn	Asn	Ile	Ser	Met
			565			
Asn	Leu	Gln	His	Leu	His	Ile
			580			
Lys	Gln	Leu	Phe	Lys	Cys	Ile
		595				
Asn	Cys	Ile	Thr	Ser	Leu	Pro
	610				615	
Thr	Gln	Leu	Glu	Leu	Lys	Gly
625				630		
Leu	Gly	Gln	Cys	Arg	Met	Leu
			645			
His	Leu	Phe	Asp	Thr	Leu	Pro

660 665 670  
 Asp Ile Asn Ile Pro Phe Ala Asn Gly Ile  
 675 680

<210> 11425  
 <211> 2583  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (18).. (1376)

<400> 11425  
 agagtccccg ggccaagatg gctgcgcggt gctccacacg ctggttgctg gtggttgttg 60  
 ggaccccgcg gctgccggct atatcgggta gaggggcccg gccgcccagg gagggcgttg 120  
 tgggggcatg gctgagccgc aagctgagcg tccccgcctt tgcgtcttcc ctgacctctt 180  
 gcggcccccg agcgtgctg acattgagac ctggtgtcag ccttacagga acaaaacata 240  
 accctttcat ttgtactgcc tccttcacac cgagtgcgcc tttggccaaa gaagattatt 300  
 atcagatatt aggagtgcct caaaatgccg gccagaaaaga gatcaagaaa gcctattatc 360  
 agcttgccaa gaagtatcac cctgacacaa ataaggatga tcccaaagcc aaggagaagt 420  
 tctcccagct ggcagaagcc tatgagggtt tgagtgatga ggtgaagagg aagcagtacg 480  
 atgcctacgg ctctgcaggc ttcatcctg gggccagcgg ctcccagcat agctactgga 540  
 agggaggccc cactgtggac cccgaggagc tgttcaggaa gatctttggc gagttctcat 600  
 cctcttcatt tggagatttc cagaccgtgt ttgatcagcc tcaggaatac ttcattggagt 660  
 tgacattcaa tcaagctgca aaggggggtca acaaggagtt caccgtgaac atcatggaca 720  
 cgtgtgagcg ctgcaacggc aaggggaacg agcccggcac caaggtgcag cattgccact 780  
 actgtggcgg ctccggcatg gaaaccatca acacaggccc ttttgtgatg cgttcacagt 840  
 gtaggagatg tgggtggccgc ggctccatca tcatatcgcc ctgtgtggtc tgcaggggag 900  
 caggacaagc caagcagaaa aagcgagtga tgatccctgt gcctgcagga gtcgaggatg 960  
 gccagaccgt gaggatgcct gtgggaaaaa gggaaatttt cattacgttc aggggtgcaga 1020  
 aaagccctgt gttccggagg gacggcgcag acatccactc cgacctcttt atttctatag 1080  
 ctcaggctct tcttgggggt acagccagag cccagggcct gtacgagacg atcaacgtga 1140  
 cgatcccccc tgggactcag acagaccaga agattcggat ggggtgggaaa ggcattcccc 1200  
 ggattaacag ctacggctac ggagaccact acatccacat caagatacga gttccaaaga 1260  
 ggctaacgag ccggcagcag agcctgatcc tgagctacgc cgaggacgag acagatgttg 1320  
 aggggacggt gaacggcgct accctcacca gctctggaaa aagatccact ggaaactagg 1380  
 ccgggaagca gcagcccctc caagggccag ggcacctggg agacgggagg attccagaac 1440  
 agcagcactg agctcccacc cgcagagcct ctggacggcc ttggcaacag caaaatcatg 1500  
 ggacaacacc tctctccacg gaaaggtcac agtggacagc ccgggcagta ggatgcagcc 1560  
 ccagaggctg gtggcagttt cctgtccatt ggtaggtgac ggcccctggc tcaggcagag 1620  
 ggagatgggt agactcttgc agggctaaaa ctctaatttg gaattgaata ttgtggatat 1680  
 ottagttaaa ggccatgctt acagcttaga aatgaagcct taagctgcat caagttaga 1740  
 agtgattaat ttccttctca gcaaaccctc gggagggttc agaattgagtt cttcctgaca 1800  
 ggttgtcttc actgggagcg tggggccccc agggcccacc agcaccgtcc tcccctaattg 1860  
 agggggccctg ccgaggcatc agctgctctg ctcatgtagt ttttattccc ggggtaccaa 1920  
 gcagctgcac agtcggtgcc tgggaggcac gtagaggccc agagagtccc tgggggttct 1980

008220" 59462960

gctctgaccg tgtgggtggt gatccttgctc aggatgtaca gtccttgctc ccaccccatc 2040  
 cgggatggcc gcctgtccct gactattgag tctgtttgtt gtaagccagg catggagggc 2100  
 tcctgccctt ctgctgagcc acagcccatt gcagcactgt gctggccaga cttcagctgc 2160  
 cttgggaact gaagccctgc cactgtttgt agtcaggggc ttggttctcc cacttacact 2220  
 gttgacatct attttctgaa gtgtgtttta attattcagt gctaatacatt gttttttcct 2280  
 ttgtaaagtgt tgattcagaa aaggaaagca caggctaagc agttgaaggt tccccaccat 2340  
 tcagtgagag cagaaccccc attccccagc ctctgctggt agcatgtcgc agtttccatg 2400  
 tgtttcagga tcttcgggct gtcgttagac aggttaatga agaacacttc tcaacagttt 2460  
 cttttttgtt ttcttttata attcactaaa ataaagcatc tattagtgtc tgatttagga 2520  
 atgtaaaatg attctgtatt aatgtaaata agattatcta ttgcaaaaag atatttcaaa 2580  
 cct 2583

<210> 11426  
 <211> 453  
 <212> PRT  
 <213> Homo sapiens

<400> 11426  
 Met Ala Ala Arg Cys Ser Thr Arg Trp Leu Leu Val Val Val Gly Thr  
 1 5 10 15  
 Pro Arg Leu Pro Ala Ile Ser Gly Arg Gly Ala Arg Pro Pro Arg Glu  
 20 25 30  
 Gly Val Val Gly Ala Trp Leu Ser Arg Lys Leu Ser Val Pro Ala Phe  
 35 40 45  
 Ala Ser Ser Leu Thr Ser Cys Gly Pro Arg Ala Leu Leu Thr Leu Arg  
 50 55 60  
 Pro Gly Val Ser Leu Thr Gly Thr Lys His Asn Pro Phe Ile Cys Thr  
 65 70 75 80  
 Ala Ser Phe His Thr Ser Ala Pro Leu Ala Lys Glu Asp Tyr Tyr Gln  
 85 90 95  
 Ile Leu Gly Val Pro Gln Asn Ala Ser Gln Lys Glu Ile Lys Lys Ala  
 100 105 110  
 Tyr Tyr Gln Leu Ala Lys Lys Tyr His Pro Asp Thr Asn Lys Asp Asp  
 115 120 125  
 Pro Lys Ala Lys Glu Lys Phe Ser Gln Leu Ala Glu Ala Tyr Glu Val  
 130 135 140  
 Leu Ser Asp Glu Val Lys Arg Lys Gln Tyr Asp Ala Tyr Gly Ser Ala  
 145 150 155 160  
 Gly Phe Asp Pro Gly Ala Ser Gly Ser Gln His Ser Tyr Trp Lys Gly  
 165 170 175  
 Gly Pro Thr Val Asp Pro Glu Glu Leu Phe Arg Lys Ile Phe Gly Glu  
 180 185 190  
 Phe Ser Ser Ser Ser Phe Gly Asp Phe Gln Thr Val Phe Asp Gln Pro  
 195 200 205  
 Gln Glu Tyr Phe Met Glu Leu Thr Phe Asn Gln Ala Ala Lys Gly Val  
 210 215 220  
 Asn Lys Glu Phe Thr Val Asn Ile Met Asp Thr Cys Glu Arg Cys Asn

009629469.072800

225					230					235				240	
Gly	Lys	Gly	Asn	Glu	Pro	Gly	Thr	Lys	Val	Gln	His	Cys	His	Tyr	Cys
				245					250					255	
Gly	Gly	Ser	Gly	Met	Glu	Thr	Ile	Asn	Thr	Gly	Pro	Phe	Val	Met	Arg
			260					265					270		
Ser	Thr	Cys	Arg	Arg	Cys	Gly	Gly	Arg	Gly	Ser	Ile	Ile	Ile	Ser	Pro
		275					280					285			
Cys	Val	Val	Cys	Arg	Gly	Ala	Gly	Gln	Ala	Lys	Gln	Lys	Lys	Arg	Val
	290					295					300				
Met	Ile	Pro	Val	Pro	Ala	Gly	Val	Glu	Asp	Gly	Gln	Thr	Val	Arg	Met
305					310					315					320
Pro	Val	Gly	Lys	Arg	Glu	Ile	Phe	Ile	Thr	Phe	Arg	Val	Gln	Lys	Ser
				325					330					335	
Pro	Val	Phe	Arg	Arg	Asp	Gly	Ala	Asp	Ile	His	Ser	Asp	Leu	Phe	Ile
			340					345					350		
Ser	Ile	Ala	Gln	Ala	Leu	Leu	Gly	Thr	Ala	Arg	Ala	Gln	Gly	Leu	
		355					360					365			
Tyr	Glu	Thr	Ile	Asn	Val	Thr	Ile	Pro	Pro	Gly	Thr	Gln	Thr	Asp	Gln
	370					375					380				
Lys	Ile	Arg	Met	Gly	Gly	Lys	Gly	Ile	Pro	Arg	Ile	Asn	Ser	Tyr	Gly
385					390					395					400
Tyr	Gly	Asp	His	Tyr	Ile	His	Ile	Lys	Ile	Arg	Val	Pro	Lys	Arg	Leu
			405						410					415	
Thr	Ser	Arg	Gln	Gln	Ser	Leu	Ile	Leu	Ser	Tyr	Ala	Glu	Asp	Glu	Thr
			420					425					430		
Asp	Val	Glu	Gly	Thr	Val	Asn	Gly	Val	Thr	Leu	Thr	Ser	Ser	Gly	Lys
		435					440					445			
Arg	Ser	Thr	Gly	Asn											
		450													

<210> 11427  
 <211> 2275  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (211).. (2082)

<400> 11427  
 gctgcttggt aacaatgggg aagataatgg ctgcctgagc aacgtotccg agcaggcgct 60  
 gagctagagg cgggtctcaa ccagctactc attggaggcg ggcttgagag cggcggccag 120  
 ggaggtcgag agcagcctcg gcggcgccgg ccgaaccaac cgagtcggat cctgacccta 180  
 aaacctagta ttttccactt gttcatcaat atggaaaact cagattccaa tgacaaagga 240  
 agtgggtgatc agtctgcagc acagcgcaga agtcagatgg accgattgga tcgagaagaa 300  
 gctttctatc aatttgtaaa taacctgagt gaagaagatt ataggcttat gagagataac 360  
 aatttgctag gcacccagg tgaaagtact gaggaagagt tgctgagacg actacagcaa 420

002220-6946960

```

attaaagaag gccaccacc gcaaaactca gatgaaaata gaggaggaga ctcttcagat 480
gatgtgtcta atggtgactc tataatagac tggottaact ctgtcagaca aactggaaat 540
acaacaagaa gtgggcaaag aggaaaccaa tcttgagag cagtgaagtc gactaatcca 600
aacagtgggtg atttcagatt cagtttagag ataaatgtta accgtaataa tgggagccaa 660
aattcagaga atgaaaatga gccatctgca agacgttcta gtggagaaaa tgtggaaaac 720
aacagccaaa ggcaagtgga aaaccacga tctgaatcaa catctgcaag gccatctaga 780
tcagaacgaa attcaactga agcgttaaca gaggtccac ctaccagagg tcagaggagg 840
gcaagaagca ggagcccaga ccatcgga accagagcaa gagctgaaag aagtaggtca 900
cctctgcata caatgagtga aattccacga agatctcatt atagtattct atctcagact 960
tttgaacatc ctttggtaaa tgagacggag ggaagttcta gaaccggca ccatgtgaca 1020
ttgaggcagc aaatatctgg gcctgagttg ctaagtagag gtctttttgc agcttctgga 1080
acaagaaatg cttctcaagg agcaggttct tcagacacag ctgccagtg tgaatctaca 1140
ggatcaggac agagacctcc aaccatagtc cttgatcttc aagtaagaag agttcgtcct 1200
ggagaatatc ggagagaga tagcatagcc agcagaactc ggtctaggtc tcagacacca 1260
aacaacactg tcacctatga aagtgaacga ggaggtttta ggctacatt ttcacgttct 1320
gagcgggcag gtgtgagaac ctatgtcagt accatcagaa ttccattcg tagaatctta 1380
aatactggtt taagtgaac tacatctgtt gcaattcaga ccatgttaag gcagataatg 1440
acaggttttg gtgagtttaag ccattttatg tacagtgata gcgactcaga gcctactggc 1500
tcagtctcaa atcgaaatat ggaaagggca gagtcaagg gtggaagagg aggttctggt 1560
ggtggttagt gttctggttc cagttcagat tccagttcca gttcagatt cagttccagt 1620
tcaagttcca gttccagtcc tagttccagt tccggtgggt aaagttcaga aactagctca 1680
gatttatttg aaggcagtaa tgaaggaagc tcatcatcag gctcatcagg tgccaggcga 1740
gagggtcgac atagggcccc agtcacattt gatgaaagt gctctttgcc ctcccttagc 1800
ctggctcagt ttttctctct aaatgaggat gatgatgacc aacctagagg actcaccaaa 1860
gaacagattg acaacttggc aatgagaagt tttggtgaaa atgatgcatt aaaaacctgt 1920
agtgtttgca ttacagaata tacagaaggc acaaaacttc gtaaaactacc ttgttcccat 1980
gagtaccatg tccactgcat cgatcgctgg ttatctgaga attctacctg tctattttgt 2040
cgcagagcag tcttagcttc tggtaacaga gaaagtgttg tgtaattaag atctgaactc 2100
tcagctatgt agctgatata gtgatgggca aacaggaatc acttgctttt atgtccactt 2160
tttgagtggg acttaaatgt aaagtaacaa cctgaattga gtcattgctt tctgaaggaa 2220
tcattgtcct ttctccagtt tttgttccag aataaaagga aatattttta aagcc 2275

```

<210> 11428

<211> 624

<212> PRT

<213> Homo sapiens

<400> 11428

```

Met Glu Asn Ser Asp Ser Asn Asp Lys Gly Ser Gly Asp Gln Ser Ala
  1             5             10             15
Ala Gln Arg Arg Ser Gln Met Asp Arg Leu Asp Arg Glu Glu Ala Phe
             20             25             30
Tyr Gln Phe Val Asn Asn Leu Ser Glu Glu Asp Tyr Arg Leu Met Arg
             35             40             45
Asp Asn Asn Leu Leu Gly Thr Pro Gly Glu Ser Thr Glu Glu Glu Leu
             50             55             60
Leu Arg Arg Leu Gln Gln Ile Lys Glu Gly Pro Pro Pro Gln Asn Ser

```

65					70					75				80
Asp	Glu	Asn	Arg	Gly	Gly	Asp	Ser	Ser	Asp	Asp	Val	Ser	Asn	Gly
				85					90				95	
Ser	Ile	Ile	Asp	Trp	Leu	Asn	Ser	Val	Arg	Gln	Thr	Gly	Asn	Thr
			100					105					110	
Arg	Ser	Gly	Gln	Arg	Gly	Asn	Gln	Ser	Trp	Arg	Ala	Val	Ser	Arg
		115				120						125		
Asn	Pro	Asn	Ser	Gly	Asp	Phe	Arg	Phe	Ser	Leu	Glu	Ile	Asn	Val
	130					135					140			
Arg	Asn	Asn	Gly	Ser	Gln	Asn	Ser	Glu	Asn	Glu	Asn	Glu	Pro	Ser
145					150					155				160
Arg	Arg	Ser	Ser	Gly	Glu	Asn	Val	Glu	Asn	Asn	Ser	Gln	Arg	Gln
				165					170					175
Glu	Asn	Pro	Arg	Ser	Glu	Ser	Thr	Ser	Ala	Arg	Pro	Ser	Arg	Ser
		180						185					190	
Arg	Asn	Ser	Thr	Glu	Ala	Leu	Thr	Glu	Val	Pro	Pro	Thr	Arg	Gly
	195						200					205		
Arg	Arg	Ala	Arg	Ser	Arg	Ser	Pro	Asp	His	Arg	Arg	Thr	Arg	Ala
	210					215					220			
Ala	Glu	Arg	Ser	Arg	Ser	Pro	Leu	His	Pro	Met	Ser	Glu	Ile	Pro
225					230					235				240
Arg	Ser	His	His	Ser	Ile	Ser	Ser	Gln	Thr	Phe	Glu	His	Pro	Leu
				245					250					255
Asn	Glu	Thr	Glu	Gly	Ser	Ser	Arg	Thr	Arg	His	His	Val	Thr	Leu
			260					265					270	
Gln	Gln	Ile	Ser	Gly	Pro	Glu	Leu	Leu	Ser	Arg	Gly	Leu	Phe	Ala
		275					280					285		
Ser	Gly	Thr	Arg	Asn	Ala	Ser	Gln	Gly	Ala	Gly	Ser	Ser	Asp	Thr
	290					295					300			
Ala	Ser	Gly	Glu	Ser	Thr	Gly	Ser	Gly	Gln	Arg	Pro	Pro	Thr	Ile
305					310					315				320
Leu	Asp	Leu	Gln	Val	Arg	Arg	Val	Arg	Pro	Gly	Glu	Tyr	Arg	Gln
				325					330					335
Asp	Ser	Ile	Ala	Ser	Arg	Thr	Arg	Ser	Arg	Ser	Gln	Thr	Pro	Asn
			340					345					350	
Thr	Val	Thr	Tyr	Glu	Ser	Glu	Arg	Gly	Gly	Phe	Arg	Arg	Thr	Phe
		355					360						365	
Arg	Ser	Glu	Arg	Ala	Gly	Val	Arg	Thr	Tyr	Val	Ser	Thr	Ile	Arg
	370					375					380			
Pro	Ile	Arg	Arg	Ile	Leu	Asn	Thr	Gly	Leu	Ser	Glu	Thr	Thr	Ser
385					390					395				400
Ala	Ile	Gln	Thr	Met	Leu	Arg	Gln	Ile	Met	Thr	Gly	Phe	Gly	Glu
				405					410					415
Ser	His	Phe	Met	Tyr	Ser	Asp	Ser	Asp	Ser	Glu	Pro	Thr	Gly	Ser
			420					425					430	
Ser	Asn	Arg	Asn	Met	Glu	Arg	Ala	Glu	Ser	Arg	Ser	Gly	Arg	Gly
		435					440					445		
Ser	Gly	Gly	Gly	Ser	Ser	Ser	Gly	Ser	Ser	Ser	Ser	Ser	Ser	Ser

000220-69462960



450		455		460
Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser	Ser Pro Ser Ser Ser			
465		470		480
Ser Gly Gly Glu Ser Ser Glu Thr Ser Ser Asp Leu Phe Glu Gly Ser				
	485		490	495
Asn Glu Gly Ser Ser Ser Ser Gly Ser Ser Gly Ala Arg Arg Glu Gly				
	500		505	510
Arg His Arg Ala Pro Val Thr Phe Asp Glu Ser Gly Ser Leu Pro Phe				
	515		520	525
Leu Ser Leu Ala Gln Phe Phe Leu Leu Asn Glu Asp Asp Asp Asp Gln				
	530		535	540
Pro Arg Gly Leu Thr Lys Glu Gln Ile Asp Asn Leu Ala Met Arg Ser				
545		550		560
Phe Gly Glu Asn Asp Ala Leu Lys Thr Cys Ser Val Cys Ile Thr Glu				
	565		570	575
Tyr Thr Glu Gly Asn Lys Leu Arg Lys Leu Pro Cys Ser His Glu Tyr				
	580		585	590
His Val His Cys Ile Asp Arg Trp Leu Ser Glu Asn Ser Thr Cys Pro				
	595		600	605
Ile Cys Arg Arg Ala Val Leu Ala Ser Gly Asn Arg Glu Ser Val Val				
610		615		620

<210> 11429  
 <211> 3079  
 <212> DNA  
 <213> Homo sapiens

<400> 11429  
 ttttagatgt atttcaagct gtgaagagtt tacgacttca gagaccacat atggtgcaaa 60  
 ccttggaaca gtatgaattc tgctacaaag tggtacaaga ttttattgat atattttctg 120  
 attatgctaa tttcaaatga agattcctgc cttaaaatat tttttaattt aatggtcagt 180  
 atattttgta aaaatcatgt taattttatt catagttgac attaatatct tccctaattt 240  
 ctttgatat attttgttat gccttaaagg ccacctgcta tacagttggt aaatcttaaa 300  
 tatgcttttt aaaaattgga ataattgtatt aagggtcaaat aatatcccat aaaatatata 360  
 tttctgctaa tattagtaaa tatcttaatt tticattaga ttcatatcat ttaatttcac 420  
 atattcaaca cttttaaatg ttgtaatctt aatatgcgaa gtgtgacctt gcaagatact 480  
 aacacaaagc tcatgttaag aaaacagttg aggactcgga agtcagttga aaatgcactt 540  
 tcctaacagt gaattcacia ccctgaacag cagcatittt ggaaggcaaa ctgttcgtga 600  
 tgggtacaatg taaatgggga cttctgtaaa gttctcagtt tcggtccatg tggtttatct 660  
 ttacattttg aagatcaaag aagtcctttac aacctgaatc cagggtctaaa acacactaga 720  
 gtagctgggtg actataaata atatttaaaa atgctgtgtc tacaccatca agactgtgtc 780  
 tacactatct tggctgaacg agaagagatg taaatgctgg gtggtcccggt tgaccacagg 840  
 cgttgggtac aacaaaacca gccatcggag ttacacccca aagcaccatt tgctgtccag 900  
 ctgcctgtcg tttggcccag accaccctca gaaaaaacc agctgcctct ccattctgc 960  
 cctcccggtc tgccacagcg gcctgggctg gtccagtgct atgcctggag gctcaacaca 1020  
 aaacttccca tccaaacatt cagatgaact gagcgtctta cacacgcagt acagaggagc 1080  
 acacattggg atagaaacag tagaataacc acgggcaatt aaactttaaa ttttctgagc 1140

003220 69462960



00220" 694660

atctagccga	gaagaagatg	tcagcatcac	ttcaaatctg	tcctcgatcg	attctttcta	240
caccatgggt	caagatcagt	taagaaacag	ctaccagatt	ggttatgacg	gctccctcag	300
aattatctac	gccagtggcc	tggactcaca	ctaccaaaca	gagccgcacg	ttctggctgg	360
caccgctaatt	ccgacggttg	ccaaaagaaa	catgactttg	cctggcgaga	acggtcaaaa	420
cttggtggaa	tggagattcc	gaaaagagca	agcccaaggg	aaagtcaatg	tctttggccg	480
caagctcagg	gttaatggca	gaaacctcct	ttcagttgac	tttgatcgaa	caacaaagac	540
agaaaagatc	tatgacgacc	accgtaaaatt	tctactgagg	atcgccctacg	acacgtctgg	600
gcacccgact	ctctggctgc	caagcagcaa	gotgatggcc	gtcaatgtca	cctattcatc	660
cacagggtcaa	attgccagca	tccagcgagg	caccactagc	gagaaagtag	attatgacgg	720
acaggggagg	atcgtgtctc	gggtctttgc	tgatggtaaa	acatggagtt	acacatattt	780
agaaaagtcc	atggttcttc	tgcttcatag	ccagcggcag	tacatcttcg	aatacgatat	840
gtgggaccgc	ctgtctgcca	tcaccatgcc	cagtgtggct	cgccacacca	tgcagaccat	900
ccgatccatt	ggctactacc	gcaacatata	caaccccccg	gaaagcaacg	cctccatcat	960
cacggactac	aacgaggaag	ggctgcttct	acaaacagct	ttcttgggta	caagtccgag	1020
ggtcttattc	aaatacagaa	ggcagactag	gctctcagaa	attttatatg	atagcacaag	1080
agtcagtttt	acctatgatg	aaacagcagg	agtcctaaag	acagtaaacc	tccagagtga	1140
tggttttatt	tgcaccatta	gatacaggca	aattgggtccc	ctgattgaca	ggcagatttt	1200
ccgcttttagt	gaagatggga	tggtaaatgc	aagatttgac	tatagctatg	acaacagctt	1260
tcgagtgacc	agcatgcagg	gtgtgatcaa	tgaacgccca	ctgcctattg	atctgtatca	1320
gtttgatgac	atttctggca	aagttgagca	gtttggaaag	tttggagtta	tatattatga	1380
tattaaccag	atcatttcta	cagctgtaat	gacctatacg	aagcactttg	atgctcatgg	1440
ccgtatcaag	gagattcaat	atgagatatt	caggctcgctc	atgtactgga	ttacaattca	1500
gtatgataac	atgggtcggg	taaccaagag	agagattaaa	atagggccct	ttgccaacac	1560
caccaaatat	gcttatgaat	atgatgttga	tggacagctc	caaacagttt	acctcaatga	1620
aaagataatg	tggcgggtaca	actacgatct	gaatggaaac	ctccatttac	tgaacccaag	1680
taacagtgcg	cgtctgacac	cccttcgcta	tgacctgcga	gacagaatca	ctcgactggg	1740
tgatgttcaa	tatcggtttg	atgaagatgg	tttctacgt	caaaggggca	cggaaatctt	1800
tgaatatagc	tccaaggggc	ttctaactcg	agtttacagt	aaaggcagtg	gctggacagt	1860
gatctaccgt	tatgacggcc	tgggaaggcg	tgtttctagc	aaaaccagtc	taggacagca	1920
cctgcagttt	ttttatgctg	acttaactta	tccactagg	attactcatg	tctacaacca	1980
ttcgagttca	gaaattacct	ccctgtatta	tgatctccaa	ggacatcttt	ttgccatgga	2040
aatcagcagt	ggggatgaat	tctatatgtc	atcggataac	acagggacac	cactggctgt	2100
gttcagtagc	aatgggctta	tgctgaaaca	gattcagtac	actgcatatg	gggaaatcta	2160
ttttgactct	aatattgact	ttcaactggg	aattggattt	catgggtggc	tgtatgaccc	2220
actcaccaaa	ttaatccact	ttggagaaaag	agattatgac	attttggcag	gacggtggac	2280
aacacctgac	atagaaatct	ggaaaagaat	tgggaaggac	ccagctcctt	ttaacttgta	2340
catgtttagg	aataacaacc	ctgcaagcaa	aatccatgac	gtgaaagatt	acatcacaga	2400
tgtaaacagc	tggctgggtga	catttggttt	ccatctgcac	aatgctattc	ctggattccc	2460
tgttcccaaa	tttgatttaa	cagaaccttc	ttacgaactt	gtgaagagtc	agcagtggga	2520
tgatataccg	cccatcttcg	gagtccagca	gcaagtggcg	cggcaggcca	aggccttcct	2580
gtcgtggggg	aagatggccg	aggtgcaggt	gagccggcgc	cgggcggcgc	gcgcgcagtc	2640
ctggctgtgg	ttcgccacgg	tcaagtcgct	gatcggcaag	ggcgtcatgc	tggccgtcag	2700
ccagggccgc	gtgcagacca	acgtgtctaa	catcgccaac	gaggactgca	tcaaggtggc	2760
ggccgtgctc	aacaacgcct	tctacctgga	gaacctgcac	ttcaccatcg	agggcaagga	2820
cacgcactac	ttcatcaaga	ccaccacgcc	cgagagcgac	ctgggcacgc	tgcggttgac	2880
cagcggccgc	aaggcgttg	agaacggcat	caacgtgacg	gtgtcgcagt	ccaccacggt	2940
ggtgaacggc	aggacgcgca	ggttcgcgga	cgtggagatg	cagttcggcg	cgcgtggcgt	3000
gcacgtgcgc	tacggcatga	ccctggacga	ggagaaggcg	cgcctcctgg	agcaggcgcg	3060

```
gcagcgcgcg ctgcccggg cctggggcgg cgagcagcag cgcgtgcgcg acggcgagga 3120
gggcgcgcgcg ctctggacgg agggcgagaa gggcagctg ctgagcgccg gcaaggtgca 3180
gggctacgac ggggtactac tactctcggg ggagcagtac cccgagctgg ccgacagcgc 3240
caacaacatc cagttcctgc ggcagagcga gatcggcagg aggtaacgcc cgggcccgcgc 3300
ccgccgagcc gctcacgccc tgcccacatt gtctgtggc acaacccgag tgggactctc 3360
caacgcccga gagccttcct cccgggggaa tgagactgct gttacgacct acaccacac 3420
cgcgaaaaca aggaccgctt ttttcggaat gaccttaaag gtgatcggct ttaacgaata 3480
tgtttacata tgcatacgcg tgcactcagt cggactgaac gtagccagag gaaaaaaaaa 3540
tcatcaagga caaaggcctc gacctgttgc gctgggcgct ctgttccttc taggcactgt 3600
atttaactaa cttt                                     3614
```

<210> 11431  
 <211> 1045  
 <212> PRT  
 <213> Homo sapiens

<400> 11431

Met	Asp	Lys	Ala	Ile	Thr	Val	Asp	Ile	Glu	Ser	Ser	Ser	Arg	Glu	Glu
1				5					10					15	
Asp	Val	Ser	Ile	Thr	Ser	Asn	Leu	Ser	Ser	Ile	Asp	Ser	Phe	Tyr	Thr
			20					25					30		
Met	Val	Gln	Asp	Gln	Leu	Arg	Asn	Ser	Tyr	Gln	Ile	Gly	Tyr	Asp	Gly
		35					40					45			
Ser	Leu	Arg	Ile	Ile	Tyr	Ala	Ser	Gly	Leu	Asp	Ser	His	Tyr	Gln	Thr
	50					55					60				
Glu	Pro	His	Val	Leu	Ala	Gly	Thr	Ala	Asn	Pro	Thr	Val	Ala	Lys	Arg
65					70				75					80	
Asn	Met	Thr	Leu	Pro	Gly	Glu	Asn	Gly	Gln	Asn	Leu	Val	Glu	Trp	Arg
			85					90					95		
Phe	Arg	Lys	Glu	Gln	Ala	Gln	Gly	Lys	Val	Asn	Val	Phe	Gly	Arg	Lys
		100					105					110			
Leu	Arg	Val	Asn	Gly	Arg	Asn	Leu	Leu	Ser	Val	Asp	Phe	Asp	Arg	Thr
	115					120						125			
Thr	Lys	Thr	Glu	Lys	Ile	Tyr	Asp	Asp	His	Arg	Lys	Phe	Leu	Leu	Arg
	130					135					140				
Ile	Ala	Tyr	Asp	Thr	Ser	Gly	His	Pro	Thr	Leu	Trp	Leu	Pro	Ser	Ser
145					150				155					160	
Lys	Leu	Met	Ala	Val	Asn	Val	Thr	Tyr	Ser	Ser	Thr	Gly	Gln	Ile	Ala
			165					170					175		
Ser	Ile	Gln	Arg	Gly	Thr	Thr	Ser	Glu	Lys	Val	Asp	Tyr	Asp	Gly	Gln
		180					185					190			
Gly	Arg	Ile	Val	Ser	Arg	Val	Phe	Ala	Asp	Gly	Lys	Thr	Trp	Ser	Tyr
	195					200						205			
Thr	Tyr	Leu	Glu	Lys	Ser	Met	Val	Leu	Leu	Leu	His	Ser	Gln	Arg	Gln
	210					215					220				
Tyr	Ile	Phe	Glu	Tyr	Asp	Met	Trp	Asp	Arg	Leu	Ser	Ala	Ile	Thr	Met
225					230				235					240	

09629469-072800

-4902/13211-

Pro	Ser	Val	Ala	Arg	His	Thr	Met	Gln	Thr	Ile	Arg	Ser	Ile	Gly	Tyr	
				245					250					255		
Tyr	Arg	Asn	Ile	Tyr	Asn	Pro	Pro	Glu	Ser	Asn	Ala	Ser	Ile	Ile	Thr	
			260					265					270			
Asp	Tyr	Asn	Glu	Glu	Gly	Leu	Leu	Leu	Gln	Thr	Ala	Phe	Leu	Gly	Thr	
		275					280					285				
Ser	Arg	Arg	Val	Leu	Phe	Lys	Tyr	Arg	Arg	Gln	Thr	Arg	Leu	Ser	Glu	
	290					295					300					
Ile	Leu	Tyr	Asp	Ser	Thr	Arg	Val	Ser	Phe	Thr	Tyr	Asp	Glu	Thr	Ala	
305					310					315					320	
Gly	Val	Leu	Lys	Thr	Val	Asn	Leu	Gln	Ser	Asp	Gly	Phe	Ile	Cys	Thr	
			325						330					335		
Ile	Arg	Tyr	Arg	Gln	Ile	Gly	Pro	Leu	Ile	Asp	Arg	Gln	Ile	Phe	Arg	
			340					345					350			
Phe	Ser	Glu	Asp	Gly	Met	Val	Asn	Ala	Arg	Phe	Asp	Tyr	Ser	Tyr	Asp	
		355					360					365				
Asn	Ser	Phe	Arg	Val	Thr	Ser	Met	Gln	Gly	Val	Ile	Asn	Glu	Thr	Pro	
	370					375					380					
Leu	Pro	Ile	Asp	Leu	Tyr	Gln	Phe	Asp	Asp	Ile	Ser	Gly	Lys	Val	Glu	
385					390					395					400	
Gln	Phe	Gly	Lys	Phe	Gly	Val	Ile	Tyr	Tyr	Asp	Ile	Asn	Gln	Ile	Ile	
			405						410					415		
Ser	Thr	Ala	Val	Met	Thr	Tyr	Thr	Lys	His	Phe	Asp	Ala	His	Gly	Arg	
			420					425					430			
Ile	Lys	Glu	Ile	Gln	Tyr	Glu	Ile	Phe	Arg	Ser	Leu	Met	Tyr	Trp	Ile	
		435					440					445				
Thr	Ile	Gln	Tyr	Asp	Asn	Met	Gly	Arg	Val	Thr	Lys	Arg	Glu	Ile	Lys	
	450					455					460					
Ile	Gly	Pro	Phe	Ala	Asn	Thr	Thr	Lys	Tyr	Ala	Tyr	Glu	Tyr	Asp	Val	
465					470					475					480	
Asp	Gly	Gln	Leu	Gln	Thr	Val	Tyr	Leu	Asn	Glu	Lys	Ile	Met	Trp	Arg	
			485						490					495		
Tyr	Asn	Tyr	Asp	Leu	Asn	Gly	Asn	Leu	His	Leu	Leu	Asn	Pro	Ser	Asn	
			500				505						510			
Ser	Ala	Arg	Leu	Thr	Pro	Leu	Arg	Tyr	Asp	Leu	Arg	Asp	Arg	Ile	Thr	
		515					520					525				
Arg	Leu	Gly	Asp	Val	Gln	Tyr	Arg	Leu	Asp	Glu	Asp	Gly	Phe	Leu	Arg	
	530					535					540					
Gln	Arg	Gly	Thr	Glu	Ile	Phe	Glu	Tyr	Ser	Ser	Lys	Gly	Leu	Leu	Thr	
545					550					555					560	
Arg	Val	Tyr	Ser	Lys	Gly	Ser	Gly	Trp	Thr	Val	Ile	Tyr	Arg	Tyr	Asp	
			565						570					575		
Gly	Leu	Gly	Arg	Arg	Val	Ser	Ser	Lys	Thr	Ser	Leu	Gly	Gln	His	Leu	
			580					585					590			
Gln	Phe	Phe	Tyr	Ala	Asp	Leu	Thr	Tyr	Pro	Thr	Arg	Ile	Thr	His	Val	
		595					600					605				
Tyr	Asn	His	Ser	Ser	Ser	Glu	Ile	Thr	Ser	Leu	Tyr	Tyr	Asp	Leu	Gln	
	610					615					620					

003220.69462960

Gly	His	Leu	Phe	Ala	Met	Glu	Ile	Ser	Ser	Gly	Asp	Glu	Phe	Tyr	Ile
625					630					635					640
Ala	Ser	Asp	Asn	Thr	Gly	Thr	Pro	Leu	Ala	Val	Phe	Ser	Ser	Asn	Gly
				645					650					655	
Leu	Met	Leu	Lys	Gln	Ile	Gln	Tyr	Thr	Ala	Tyr	Gly	Glu	Ile	Tyr	Phe
			660					665					670		
Asp	Ser	Asn	Ile	Asp	Phe	Gln	Leu	Val	Ile	Gly	Phe	His	Gly	Gly	Leu
		675						680					685		
Tyr	Asp	Pro	Leu	Thr	Lys	Leu	Ile	His	Phe	Gly	Glu	Arg	Asp	Tyr	Asp
	690					695					700				
Ile	Leu	Ala	Gly	Arg	Trp	Thr	Thr	Pro	Asp	Ile	Glu	Ile	Trp	Lys	Arg
705					710					715					720
Ile	Gly	Lys	Asp	Pro	Ala	Pro	Phe	Asn	Leu	Tyr	Met	Phe	Arg	Asn	Asn
				725					730					735	
Asn	Pro	Ala	Ser	Lys	Ile	His	Asp	Val	Lys	Asp	Tyr	Ile	Thr	Asp	Val
			740						745					750	
Asn	Ser	Trp	Leu	Val	Thr	Phe	Gly	Phe	His	Leu	His	Asn	Ala	Ile	Pro
		755					760						765		
Gly	Phe	Pro	Val	Pro	Lys	Phe	Asp	Leu	Thr	Glu	Pro	Ser	Tyr	Glu	Leu
	770					775					780				
Val	Lys	Ser	Gln	Gln	Trp	Asp	Asp	Ile	Pro	Pro	Ile	Phe	Gly	Val	Gln
785					790					795					800
Gln	Gln	Val	Ala	Arg	Gln	Ala	Lys	Ala	Phe	Leu	Ser	Leu	Gly	Lys	Met
				805					810					815	
Ala	Glu	Val	Gln	Val	Ser	Arg	Arg	Arg	Ala	Gly	Gly	Ala	Gln	Ser	Trp
				820					825					830	
Leu	Trp	Phe	Ala	Thr	Val	Lys	Ser	Leu	Ile	Gly	Lys	Gly	Val	Met	Leu
		835					840						845		
Ala	Val	Ser	Gln	Gly	Arg	Val	Gln	Thr	Asn	Val	Leu	Asn	Ile	Ala	Asn
	850					855					860				
Glu	Asp	Cys	Ile	Lys	Val	Ala	Ala	Val	Leu	Asn	Asn	Ala	Phe	Tyr	Leu
865					870					875					880
Glu	Asn	Leu	His	Phe	Thr	Ile	Glu	Gly	Lys	Asp	Thr	His	Tyr	Phe	Ile
				885					890					895	
Lys	Thr	Thr	Thr	Pro	Glu	Ser	Asp	Leu	Gly	Thr	Leu	Arg	Leu	Thr	Ser
			900					905						910	
Gly	Arg	Lys	Ala	Leu	Glu	Asn	Gly	Ile	Asn	Val	Thr	Val	Ser	Gln	Ser
		915					920						925		
Thr	Thr	Val	Val	Asn	Gly	Arg	Thr	Arg	Arg	Phe	Ala	Asp	Val	Glu	Met
	930					935					940				
Gln	Phe	Gly	Ala	Leu	Ala	Leu	His	Val	Arg	Tyr	Gly	Met	Thr	Leu	Asp
945					950					955					960
Glu	Glu	Lys	Ala	Arg	Ile	Leu	Glu	Gln	Ala	Arg	Gln	Arg	Ala	Leu	Ala
				965					970					975	
Arg	Ala	Trp	Ala	Arg	Glu	Gln	Gln	Arg	Val	Arg	Asp	Gly	Glu	Gly	Gly
			980					985					990		
Ala	Arg	Leu	Trp	Thr	Glu	Gly	Glu	Lys	Arg	Gln	Leu	Leu	Ser	Ala	Gly
		995					1000						1005		

09629469.072800

Lys Val Gln Gly Tyr Asp Gly Tyr Tyr Val Leu Ser Val Glu Gln Tyr  
 1010 1015 1020  
 Pro Glu Leu Ala Asp Ser Ala Asn Asn Ile Gln Phe Leu Arg Gln Ser  
 1025 1030 1035 1040  
 Glu Ile Gly Arg Arg  
 1045

<210> 11432  
 <211> 2743  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1173).. (2549)

<400> 11432

```

agcaagcagg aagaggagggc tttctaaggc ggctcgtccg ggaaatccgg gccctaggat 60
tgtccactca tcccagtatc agcgagatac ggggagatag agttagcgac agcgtgagcc 120
agagctggag cacgtttggg gagagaccag aaagcaatgg aggccggaga ggggaaggag 180
cgcgttccga aacaaaggca agtcctgata ttctttgttt tgctgggcat agctcaggct 240
agttgccagc ctaggcacta ttcagtggcc gaggaacgg agagtggctc ctttgtggcc 300
aatttgtaa aagacctggg gctggagata ggagaacttg ctgtgagggg ggccagggtc 360
gtttccaaag gaaaaaaaaat gcatttgcag ttgataggc agaccgggga tttgttgtaa 420
aatgagaaat tggaccggga ggagctgtgc ggccccacag agccctgtgt cctacctttc 480
caggtgttac tagaaaatcc cttgcagttt ttccaggcgg agctacggat tagggacgta 540
aatgatcatt ccccagtttt cctagacaaa gaaatacttt tgaaaattcc agaaagtatc 600
actcctggaa ctactttctt aatagaacgt gccaggact tggatgtagg aaccaacagt 660
ctccaaaatt acacaatcag tcccaatttc cactttcatt ttaatttaca agacagtctc 720
gatggcataa tattaccaca gctgggtgtg aacagagccc tggatcgaga ggagcagcct 780
gagatcaggt taaccctcac agcgctagat ggcgggagtc caccagggtc cggcacggcc 840
ctgggtacgga ttgaagttgt ggacatcaat gacaacgtcc cagagttgca aagctgctct 900
atgagggtgca gatcccgag gacagccccg ttggatccca ggttgccatc gtctctgcca 960
gggattttaga cattggaact aatggagaaa tatcttatgc attttcccaa gcatctgaag 1020
acattcgcaa aacgtttcga ttaagtgcaa aatcgggaga actgcttta agacagaaac 1080
tggatttcga atccatccag acatacacag taaatattca ggcgacagat ggtggggggc 1140
tatctggaac ttgtgtggta tttgtccaag tgatggattt gaatgacaat cctccggaac 1200
taactatgtc gacacttacc aatcagatcc cagaaaactt gcaggacacc ctcatgtctg 1260
tattcagcgt ttcagatcct gactccggag acaacggaag gatggtgtgc tccatccaag 1320
atgatcttcc ttttttcttg aaaccttctg ttgagaactt ttacactctg gtgataagca 1380
cggccctgga ccgggagacc agatccgaat acaacatcac catcaccgtc accgacttcg 1440
ggacacccag gctgaaaacc gagcacaaca taaccgtgct ggtctccgac gtcaatgaca 1500
acgccccgcg cttcacccaa acctcctaca cctgttcgt ccgcgagaac aacagccccg 1560
ccctgcacat cggcagcgtc agcgccacag acagagactc gggcaccaac gccagggtca 1620
cctactcgct gctgccgcc caggaccgcg acctgcccct cgctccctg gtctccatca 1680
acgcggaaca cggccacctg ttgcgtctcc agtcgctgga ctacgaggcc ctgcaggcgt 1740
tcgagttccg cgtggggcgc gcagaccgcg gctccccggc gttgagcagc gaggcgctgg 1800

```

```

tgcgcgtgct ggtgctggac gccaacgaca actcgccctt cgtgctgtac ccgctgcaga 1860
acggctccgc gccctgcacc gagctggtgc cccgggcggc cgagccgggc tacctggtga 1920
ccaaggtggt ggcggtggac ggcgactcgg gccagaacgc ctggctgtcg taccagctgc 1980
tcaaggccac ggagcccggg ctgttcggcg tgtgggcgca caatggcgag gtgcgcaccg 2040
ccaggctgct gagggagcgc gacgctgcc aagcagaggct ggtggtgctg gtcaaggaca 2100
atggcgagcc tcgcgcctcg gccaccgcca cgctgcacgt gtcctggtg gacggcttct 2160
cccagcccta cctgctgctc cgggaggcgg caccggccca ggcccaggcc gacttgctca 2220
ccgtctacct ggtggtggcg ttggcctcgg tgtcttcgct cttcctcttc tcggtgctcc 2280
tgttcgtggc ggtgcggtcg tgcaggagga gcaggcggcg ctcggtgggt cgctgctcgg 2340
tgcccgaggg cccctttcca gggcagatgg tggacgtgag cggcaccggg accctgtccc 2400
agagctacca gtacgaggtg tctctgactg gagaatccgg gacaaatgag ttcaagttcc 2460
tgaagccaat tatccccaac ttctgtgctc aggggtgcaga gagggttagc gaggcaaatc 2520
ccagtttcag gaagggtttt gaattcactt aagtgttaat aaggatctac tgaggctagt 2580
ctcgtttaat ttgtggaaag tcctttttta ccgctttgcc cattggaggt gtctcctttt 2640
attagaaagt aaccatctta ttccaattct atgcatgtta ctggtattta taaatgtatg 2700
agtttttttg cggataataa aatgtaaatt ttctttgtat tct 2743

```

<210> 11433  
 <211> 459  
 <212> PRT  
 <213> Homo sapiens

<400> 11433

```

Met Asp Leu Asn Asp Asn Pro Pro Glu Leu Thr Met Ser Thr Leu Ile
  1             5             10             15
Asn Gln Ile Pro Glu Asn Leu Gln Asp Thr Leu Ile Ala Val Phe Ser
          20             25             30
Val Ser Asp Pro Asp Ser Gly Asp Asn Gly Arg Met Val Cys Ser Ile
          35             40             45
Gln Asp Asp Leu Pro Phe Phe Leu Lys Pro Ser Val Glu Asn Phe Tyr
          50             55             60
Thr Leu Val Ile Ser Thr Ala Leu Asp Arg Glu Thr Arg Ser Glu Tyr
          65             70             75             80
Asn Ile Thr Ile Thr Val Thr Asp Phe Gly Thr Pro Arg Leu Lys Thr
          85             90             95
Glu His Asn Ile Thr Val Leu Val Ser Asp Val Asn Asp Asn Ala Pro
          100            105            110
Ala Phe Thr Gln Thr Ser Tyr Thr Leu Phe Val Arg Glu Asn Asn Ser
          115            120            125
Pro Ala Leu His Ile Gly Ser Val Ser Ala Thr Asp Arg Asp Ser Gly
          130            135            140
Thr Asn Ala Gln Val Thr Tyr Ser Leu Leu Pro Pro Gln Asp Pro His
          145            150            155            160
Leu Pro Leu Ala Ser Leu Val Ser Ile Asn Ala Asp Asn Gly His Leu
          165            170            175
Phe Ala Leu Gln Ser Leu Asp Tyr Glu Ala Leu Gln Ala Phe Glu Phe
          180            185            190

```

09629469.072800



<210> 11434  
 <211> 3404  
 <212> DNA  
 <213> Homo sapiens

**<400> 11434**

agacacggaa gtgctgggag gcgcggggag cccgttcggt tgcgggtgtc tctggccctg 60  
cggtcagccc tgggaacgtc ccggagagct agattcctag aggcccgatt ccgctagccc 120

000220 694699 072300

ggaacagaca	aagccagcgc	tcccgccgcg	tcccgactt	aggatccgat	gccggcagcg	180
tcctggggcc	cccgtagcgg	ggctggacca	tgagcctgct	ggacggcctc	gcttcctcgc	240
cgcgggctcc	gctgcagtc	agcaaggcca	ggatgaaaaa	gctcccgaag	aagagccaga	300
atgagaagta	ccggctgaag	tacctgcggc	tgcgcaaaagc	ggccaaggcc	acggtgtttg	360
aaaatgctgc	tatttgtgat	gaaattgctc	gtottgagga	aaaatttctt	aaagcaaaag	420
aagaaagaag	gtacttgcta	aagaagctcc	tocagcttca	ggctctaact	gaaggggaag	480
tacaggctgc	agctccttcc	cacagttcca	gtttgcccc	gacttatggt	gtggccagct	540
ctgtgggaac	tatacaggga	gctgggccta	tttcaggggc	cagcactggg	gctgagggaac	600
catttgggaa	gaaaactaag	aaggagaaaa	aagaaaaagg	caaagagAAC	aacaaactgg	660
aagatcatca	ccgaccgacc	tggctttcat	gatgagagtg	ccatctaccc	cgtgggctat	720
tgcagtactc	gaatatatgc	cagcatgaag	tgcccagacc	agaagtgtct	atatacctgt	780
cagatcaagg	atggtgggtg	gcagcctcag	tttgaaattg	ttcctgaaga	tgacccccag	840
aatgccattg	tcagctcttc	tgcatatgct	tgcatgocag	aactgctcag	gactataagc	900
actactatgg	ggaaactaat	gcctaacctg	cttcagctg	gagctgactt	ttttggattt	960
tctcatccag	ccatccacaa	cctgatccag	agctgtccag	gagctcgaaa	atgcatcaat	1020
taccagtggg	tgaaatttga	tgtgtgcaaa	cctggagatg	ggcagctacc	tgaggggctg	1080
ccggagaatg	atgcagctat	gagctttgaa	gcctttcaga	gacagatctt	tgatgaagat	1140
cagaatgata	cccttctgcc	aggatccttg	gacctccag	agcttcagcc	tgacgctttt	1200
gtgtcttctt	accagcccat	gtacctgaca	catgaacctt	tggtagatac	tcacctgcag	1260
cacttgaaagt	ctccatcaca	gggtagccca	attcagtctt	cagattgaac	aagaagggat	1320
cagatgccac	atcgtttttg	tcgtgattaa	tttaacttaa	actaaaattt	tggttatatg	1380
aaagaaggca	gcaattcaga	agtaaagaag	atactaactg	atttcacatc	ggaaggctct	1440
gtggtgatgg	ttttccctgg	gaaaaccttc	agctgcttta	tttttagtaa	taaatttctc	1500
ttgtcaattc	tgtttacttt	catcttgtaa	tcgggatgta	atcttttttg	cttagctctg	1560
cctgaggtaa	agtaaacttc	agcctcttat	aaacaagagt	gatagagagc	tgaggctgct	1620
tacaacaaat	accatagaca	ggttggttta	taaataacat	gaatttatit	ctcacagttc	1680
tggtatgctg	gaagtccaag	ttcaaggagc	gcagattcaa	tgtctggtga	gggcccactt	1740
cctagtctct	agacagctgt	cttcctgcag	tgctctcacg	tggtagaaga	ggaaggcagc	1800
tctccggggg	cccttttata	agatcactaa	gccggttcat	gagaggctct	ctctcatgac	1860
ctaataccct	cccaaaggcc	ccacctccca	ataccatcac	attaggggtt	aggatttaac	1920
atgaattttg	gggacatata	aacattaagt	ctgtagtagc	agcagctgac	taacgaggga	1980
gatagggaga	ttctgacaaa	cttctactct	tgattgtgat	cctaattcaa	ggaatatcaa	2040
gtcccagccc	ctgcaaccca	ggctgctgct	taattttcat	gtcagtatca	tcaaaatcca	2100
atgttctgct	taaaactcaag	atggaaagtc	cagtccaagg	tacactgttc	atctttttct	2160
tcacattttg	cacatccttc	aaggggatct	ttaacctctt	taacctttgt	attgcacctc	2220
agataatgtg	cttttttagct	cagtacactg	aaaccatatg	ataacacaaa	ttcacatata	2280
attgggggtt	agtcccatac	tctataacag	acttagtctt	gtottttcat	tagccatgta	2340
ataatataac	tccatgtttc	atgcaactgg	attttttggc	cctgttaata	gcattaaggt	2400
agaggtttac	tctatcacct	aacacctcaa	cactacctgt	gggatgcctt	agttacccag	2460
cagcaggtta	ccaagggtct	tctggaaagg	gagggacaaa	aggaccocaga	agtagaagaa	2520
tggggatgga	gtggtgagaa	ttgaatggtt	aatgcactgc	cattcataat	tgccaattga	2580
ggacaacaca	aatgggattg	gtactttata	gtaataaatc	tgaccagcag	agggagggat	2640
caggcagcag	tgtttagagc	acaccacact	ggccactgta	aactgagaag	ctaagttaac	2700
tggtattttta	tgattttgag	tatagtcttt	ttataagttg	tatacacttt	acaatgtaaa	2760
agaaacaaac	tttgtataat	agcaaatcgg	gaaggggact	gcttaaaatg	ttaatgcagt	2820
gtttttcttt	ttttctctgc	ataaatggct	tgagcatact	ggcattttaca	cagaaatgat	2880
atatgctgct	tttatcatat	aacaaatatt	ttccactat	tacagcctga	gtaatacccg	2940
tattaaaaga	gcctcatttt	agaaagacat	ttaaaatttt	tggaacatac	cacatgtaga	3000

<210> 11435  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens

[illegible]

260

<210> 11436  
<211> 2286  
<212> DNA  
<213> Homo sapiens

<400> 11436

```
tttcccatg tctaattttg ggatttcagt gaggcctttt ccatctgtcc aggagaacag 60
aagggaaaaa aagatacttg aaagaaactg aaggaaattt aaacaaagaa acacttgaaa 120
gaaactggaa agaaaaataa tttttttatg tgaacaaatt ttgcaagaag aaaaaagcat 180
aaaagacact aacggcaaat ctatgtttta atggaaaatc gtctaactgg agaagggcgg 240
tatccacccc acattcggat cccaggggtc tgaggcctcg cattgagctg ggggttccct 300
ctgagcccca gtgtgtgtgg aatcagtgca ctcttgactg ggcctgtagt aagggtgctca 360
tggggtttgt ctctcaccac accatcagag gactttttaa atcataggcg tagagagtta 420
gctatctgct gaattactgc cactcttctt ggtgggggct cctagctgtg gctgggggct 480
ccaggcgccc ctgtgattac ctctactgc caccatggcg ctcatcaga ttccccactc 540
tactaacat tgcttccctt ttigaccagc aggaaacagc aggtctggcc agattctcac 600
ttgccatca atctcgttct tggatgattt cctcattgt gatgcttctg gggcacgttg 660
accatatgca cctctagaac ctaaccaggg ctctcttota ccagctgtgg gcgggcttgg 720
tctggtaac ttgtctgctc tgccattcca ctgctcctcc atccactgc caatcccaag 780
agtctggcct ccctccagcc ctgggcagac tgaccagcaa ggtggacctt tacattcaag 840
cacagctggc ttttatgaca taaagaacta aaggccgaaa gaatctcttg ctgctgcaaa 900
gaacagattt tatatttctt cctctaattc tggcaaatga cctttacctt ttggaaagat 960
ttcatattgc ttctcctcc ctggatagga cctaattgag cacagcggga ctcaaagagg 1020
aggacatttt ctcttgccag tgcactgggc agtggggctg tccttcaact gctgctgcca 1080
aaattggttt tctaaaattc ttccagtaga gactaaaaga agattcaatt cctgtaaccc 1140
aagactgagt cttagggctc cagtctccac ctgcttggtt tcctatcctt tgctgcctgc 1200
ctgggggtggc ctggaagcct gttcagaaag gcacaatgtg gagcctgggg tgtctcccc 1260
accccaggac cgtcagggtt accagtgtgt gcaatcgcca tgtattcaga gggaagtacc 1320
tttgttacct acaacttagg agctaggcct ctgctacaag cacttgaaaa tgatattttt 1380
atttttaacg tctcaacaat ctgatatcgg atgtcgttta acctgggctc gtggtagggc 1440
tccagcattt ctccctcctt cctggtttgc ctgtaggggt agactcggaa ggtgggtggg 1500
gtgtgcattt cctgttagga gtgtatcagt gcttgtctta ttataagccc ctttcttttg 1560
tgaatttgaa gtagcaccac caagcctgga ttgtgaagg attaagaatc ggtctgtggg 1620
ctactgagtg ggtccttagg atactggccc agattttgcc actgggtatg gcagatcatt 1680
ttctaccatg gcctgctgct cttgtagtgg acttcctgag tccaatccca cctcctggtg 1740
tagaatttac actgctgcac ctgaggtcga tgtttcaaag taagatcaag ccagtgtttt 1800
gatctgggct ctgagcacia gtcaggaaac accaacadat tcacactctc ccagtaggtt 1860
cctcagtcct atggtgaatg gctattcgtt aatggctggg ctggctcttt ggtgttgagg 1920
cctttccaat agcccatga aaagaagcat caccacagga tattgtaaaa aggatgtaac 1980
aaggagatag ggtagacatt gtactcagtg ggccttgggg cctagcccag ctctgagcag 2040
aggactgtgg cattcactgt ccttgagtgt ttcacctct tggataacac acgggccttc 2100
tcttctggat ttcatcagag attacagcca gatgggggct gaagaccatc ctcttgacca 2160
cagagggtgt actgtgggaa ttctcccaa tttatggttt ccagaaaaat cttagttcct 2220
tttatttata gaatgcatgt cttttgtgtt aagaaaccaa agagaaataa agagaacact 2280
cctaatt
```

09629469.072300

<210> 11437  
<211> 2338  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (261).. (1838)

<400> 11437  
actccgcct tcatttccca tcgtgctgag ggggtggca tggcggagaa ggatgacacc 60  
ggagtttgac gaagagggtg tttttgagaa ttctccactt taccaatact tacaggatct 120  
gggacacaca gactttgaaa tatgttcttc ttgtcacca aaaacagaaa aatgcacaac 180  
agagggacga caaaagcctc ctacaagagt cctaccaaaa ggatctctca gtgctatttg 240  
ccttcattag cttgctcgtt atgcttcccg cttgggtggat tgtgtcttcc tggctggtat 300  
ggggagtgat tctatttggt tatctgggtc taagagcttt gagattatgg aggacagcca 360  
aactacaagt gaccctaaaa aaatacagcg ttcatittgga agatatggcc acaaacagcc 420  
gagcttttac taacctcgtg agaaaagctt tacgtctcat tcaagaaacc gaagtgattt 480  
ccagaggatt tacactgggt agtgctgctt gccatttaa taaagctgga cagcatccaa 540  
gtcagcatct catcggtctt cggaaaagctg totaccgaac tctaagagcc aacttccaag 600  
cagcaaggct agctacccta tatatgctga aaaactacc cctgaactct gagagtgaac 660  
atgtaaccaa ctacatctgt gtggtgctt ttaaagagct gggccttgga cttagtgaag 720  
agcagatttc agaagaggaa gcacataact ttacagatgg cttcagcctg cctgcattga 780  
aggttttgtt ccaactctgg gtggcacaga gtacagagtt cttcagacgg gtaataattc 840  
ttgaagatga acttgaaaag cttgtttgta ctaaagaaac acaagaacta gtgtcagagg 900  
cttatcccat cctagaacag aaattaaagt tgattcagcc ccacgttcaa gcaagcaaca 960  
attgctggga agaggccatt tctcaggctg acaaactgct acgaagaaat acagataaaa 1020  
aaggcaagcc tgaaatagca tgtgaaaacc cacattgtac agtagtacct ttgaagcagc 1080  
ctactctaca cattgcagac aaagatccaa tccagagga gcaggaatta gaagcttatg 1140  
tagatgatat agatattgat agtgatttca gaaaggatga tttttattac ttgtctcaag 1200  
aagacaaaaga gagacagaag cgtgagcatg aagaatccaa gaggtgctc caagaattaa 1260  
aatctgtgct gggatttaaa gcttcagagg cagaaaggca gaagtggaag caacttctat 1320  
ttagtgatca tgccgtgttg aaatccttgt ctctgtaga ccagtgga cccataagta 1380  
attcagaacc atcaatgaat tcagatatgg gaaaagtcag taaaaatgat actgaagagg 1440  
aaagtaataa atccgccaca acagacaatg aaataagtag gactgagtat ttatgtgaaa 1500  
acgctctaga aggtaaaaat aaagataatt cttcaaatga agtcttccc caaggagcag 1560  
aagaaagaat gtgttacc aaagatgaacc acaagcagat ggaagtggct 1620  
tgaccactgc ccctccaact cccagggact cattacagcc ctccattaag cagaggctgg 1680  
cacggctaca gctgtcacca gattttacct tctactgtgg ccttgctgca gaagtggctg 1740  
ctagatctct ctcccttacc accatgcagg aacagacttt tggatgatgag gaggaagaac 1800  
aaataataga agaaaataaa aatgagatag aagaaaagta agaaccaaga ttcatatgaa 1860  
gtgatattag attgttcctt ttacaaaagt gtttagcttc aagactggaa agggaaatag 1920  
agtgtaaagt tactatatat aaagctaaga tgtggattta caggaagaac cctggtttga 1980  
ataactgac tgaaattagt agttacctgt aaatggcaga tcttttagga aaataagaga 2040  
aaggtaaggg ctcttttgaa taaactgctg ttttatttgt ggcacaactg atcaatcttg 2100  
gaaattcttt aagtattttt aataagaaat gaattatcat ttcttgccag aatttgctac 2160

0969469-072300

-4911/13211-

cttaaggtga ttgggaaaat tctgttgcaa gaacattaac atttagtatg actccttttt 2220  
actgtattct tgcagttaat aactgcagct attatgttaa taacaagttg tttgtatttt 2280  
atttttgttt ataccagtct taaagatcca ggttctgaat aaaaaaatta attgatac 2338

<210> 11438

<211> 526

<212> PRT

<213> Homo sapiens

<400> 11438

Met	Leu	Pro	Ala	Trp	Trp	Ile	Val	Ser	Ser	Trp	Leu	Val	Trp	Gly	Val
1				5				10						15	
Ile	Leu	Phe	Val	Tyr	Leu	Val	Ile	Arg	Ala	Leu	Arg	Leu	Trp	Arg	Thr
			20					25					30		
Ala	Lys	Leu	Gln	Val	Thr	Leu	Lys	Lys	Tyr	Ser	Val	His	Leu	Glu	Asp
		35					40					45			
Met	Ala	Thr	Asn	Ser	Arg	Ala	Phe	Thr	Asn	Leu	Val	Arg	Lys	Ala	Leu
	50					55					60				
Arg	Leu	Ile	Gln	Glu	Thr	Glu	Val	Ile	Ser	Arg	Gly	Phe	Thr	Leu	Val
65					70					75				80	
Ser	Ala	Ala	Cys	Pro	Phe	Asn	Lys	Ala	Gly	Gln	His	Pro	Ser	Gln	His
			85						90					95	
Leu	Ile	Gly	Leu	Arg	Lys	Ala	Val	Tyr	Arg	Thr	Leu	Arg	Ala	Asn	Phe
			100					105					110		
Gln	Ala	Ala	Arg	Leu	Ala	Thr	Leu	Tyr	Met	Leu	Lys	Asn	Tyr	Pro	Leu
	115					120						125			
Asn	Ser	Glu	Ser	Asp	Asn	Val	Thr	Asn	Tyr	Ile	Cys	Val	Val	Pro	Phe
	130					135					140				
Lys	Glu	Leu	Gly	Leu	Gly	Leu	Ser	Glu	Glu	Gln	Ile	Ser	Glu	Glu	Glu
145					150					155				160	
Ala	His	Asn	Phe	Thr	Asp	Gly	Phe	Ser	Leu	Pro	Ala	Leu	Lys	Val	Leu
			165					170					175		
Phe	Gln	Leu	Trp	Val	Ala	Gln	Ser	Ser	Glu	Phe	Phe	Arg	Arg	Val	Ile
		180						185					190		
Ile	Leu	Glu	Asp	Glu	Leu	Glu	Lys	Leu	Val	Cys	Thr	Lys	Glu	Thr	Gln
	195						200					205			
Glu	Leu	Val	Ser	Glu	Ala	Tyr	Pro	Ile	Leu	Glu	Gln	Lys	Leu	Lys	Leu
	210					215					220				
Ile	Gln	Pro	His	Val	Gln	Ala	Ser	Asn	Asn	Cys	Trp	Glu	Glu	Ala	Ile
225					230					235				240	
Ser	Gln	Val	Asp	Lys	Leu	Leu	Arg	Arg	Asn	Thr	Asp	Lys	Lys	Gly	Lys
			245						250					255	
Pro	Glu	Ile	Ala	Cys	Glu	Asn	Pro	His	Cys	Thr	Val	Val	Pro	Leu	Lys
		260					265						270		
Gln	Pro	Thr	Leu	His	Ile	Ala	Asp	Lys	Asp	Pro	Ile	Pro	Glu	Glu	Gln
	275					280						285			
Glu	Leu	Glu	Ala	Tyr	Val	Asp	Asp	Ile	Asp	Ile	Asp	Ser	Asp	Phe	Arg

09629469.072800

-4912/13211-

290		295		300
Lys Asp Asp Phe Tyr Tyr	Leu Ser Gln Glu Asp	Lys Glu Arg Gln Lys		
305	310	315	320	
Arg Glu His Glu Glu Ser	Lys Arg Val Leu Gln Glu	Leu Lys Ser Val		
	325	330	335	
Leu Gly Phe Lys Ala Ser	Glu Ala Glu Arg Gln	Lys Trp Lys Gln Leu		
	340	345	350	
Leu Phe Ser Asp His Ala Val	Leu Lys Ser Leu Ser	Pro Val Asp Pro		
	355	360	365	
Val Glu Pro Ile Ser Asn Ser	Glu Pro Ser Met Asn	Ser Asp Met Gly		
	370	375	380	
Lys Val Ser Lys Asn Asp Thr	Glu Glu Glu Ser Asn	Lys Ser Ala Thr		
385	390	395	400	
Thr Asp Asn Glu Ile Ser Arg	Thr Glu Tyr Leu Cys	Glu Asn Ala Leu		
	405	410	415	
Glu Gly Lys Asn Lys Asp Asn	Ser Ser Asn Glu Val	Phe Pro Gln Gly		
	420	425	430	
Ala Glu Glu Arg Met Cys Tyr	Gln Cys Glu Ser Glu	Asp Glu Pro Gln		
	435	440	445	
Ala Asp Gly Ser Gly Leu Thr	Thr Ala Pro Pro Thr	Pro Arg Asp Ser		
	450	455	460	
Leu Gln Pro Ser Ile Lys Gln	Arg Leu Ala Arg Leu	Gln Leu Ser Pro		
465	470	475	480	
Asp Phe Thr Phe Thr Ala Gly	Leu Ala Ala Glu Val	Ala Ala Arg Ser		
	485	490	495	
Leu Ser Phe Thr Thr Met Gln	Glu Gln Thr Phe Gly	Asp Glu Glu Glu		
	500	505	510	
Glu Gln Ile Ile Glu Glu Asn	Lys Asn Glu Ile Glu	Glu Lys		
	515	520	525	

<210> 11439  
 <211> 2167  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (232).. (870)

<400> 11439  
 gaagctgcct cgcacatctt ggagatggga gacgggcgat ggctgtggtc cttctgctaa 60  
 tgcaaaacaac aaaacgggca cactagtcac ccccgaggga ggccaccatc actgtaactg 120  
 ttggccaaag ctacaaaaga agcgaggga tccaaccgag cgcagcgaca ctgagaacag 180  
 cttcccctgc cttctgcggc ggcagaagtg aagtgcctga ggaccggaag gatggtgcag 240  
 tcctgctccg cctacggctg caagaaccgc tacgacaagg acaagcccgt ttctttccac 300  
 aagtttcctc ttactcgacc cagtctttgt aaagaatggg aggcagctgt cagaagaaaa 360  
 aactttaaac ccaccaagta tagcagtatt tgttcagagc actttactcc agactgcttt 420

09629469.072300

```

aagagagagt gcaacaacaa gttactgaaa gagaatgctg tgcccacaat atttctttgt 480
actgagccac atgacaagaa agaagatctt ctggagccac aggaacagct tccccacct 540
cctttaccgc ctctgtttc ccaggttgat gctgctattg gattactaat gccgcctctt 600
cagacccctg ttaatctctc agttttctgt gaccacaact atactgtgga ggatacaatg 660
caccagcgga aaaggattca tcagctagaa cagcaagttg aaaaactcag aaagaagctc 720
aagaccgcac agcagcgatg cagaaggcaa gaacggcagc ttgaaaaatt aaaggagggt 780
gttcacttcc agaaagagaa agacgacgta tcagaaagag gttatgtgat tctaccaa 840
gactactttg aaatagttga agtaccagca taaaaaatg aaatgtgtat tgatttctaa 900
tggggcaata ccacatatcc tcctctagcc tgtaaaggag ttcatttaa aaaaataaca 960
tttgattact tatataaaaa cagttcagaa tttttttta aaaaaattc tatataact 1020
gtaaaattat aaatTTTTTT gtttGtaatt tcaggTTTTT tacattttaa caaaatattt 1080
taaaagttat aaactaacct cagacctcta atgtaagttg gtttcaagat tggggatttt 1140
ggggTTTTTT tttttagtat ttatagaaat aatgtaaaaa taaaaagtaa agagaatgag 1200
aacagtgtgg taaaaggagg atttcagttt aaaacttaaa attagtactg ttttattgag 1260
agaatttagt tatattttta atcagaagta tgggtcagat catgggacat aacttcttag 1320
aatatatata tacatatgta catattctca tatgtaaagt cacaaggttc atttatcttt 1380
ctgaatcagt tatcaaagat aaattggcaa gtcagtactt aagaaaaaag atttgattat 1440
catcacagca gaaaaaagtc attgcatatc tgatcaataa cttcagattc taagagtgga 1500
tttttttttt tttacatggg ctctatattt ttccctact gtottgcatt ataaaattag 1560
aagtgtattt tcagtggaag aaacattttt caataaataa agtaaggcat tgtcatcaat 1620
gaagtaatta aaactgggac ctgatctatg atacgctttt ttctttcatt acaccctagc 1680
tgaaggacat ccagttcccc agctgtagtt atgtatctgc cttcaagtct ctgacaaatg 1740
tgctgtgtta gtagagtttg atttGtatca tatgataatc ttgcacttga ctgagttggg 1800
acaaggcttc acataaaaaa ttatttcttc acttttaaca caagttagaa attatatccc 1860
atttagttaa atgcgtgatt tatattcaga acaacctact atgtagcgtt tttttactg 1920
aatgtggaga tttaaacact gaggtttctg ttcaaactgt gagttctgtt ctttgtgaga 1980
aattttacat atattggaag tgaaaatatg ttctgagtaa acaaattatt ctatgggagt 2040
tatcttttta gatttagaat aactgttcca atgataatta ttacttttat atttcaaagt 2100
acactaagat cgttgaagag caatagaacc ttttaagacag tattaaggt gtgaagcaat 2160
ggcattc 2167

```

<210> 11440  
 <211> 213  
 <212> PRT  
 <213> Homo sapiens

<400> 11440  
 Met Val Gln Ser Cys Ser Ala Tyr Gly Cys Lys Asn Arg Tyr Asp Lys  
 1 5 10 15  
 Asp Lys Pro Val Ser Phe His Lys Phe Pro Leu Thr Arg Pro Ser Leu  
 20 25 30  
 Cys Lys Glu Trp Glu Ala Ala Val Arg Arg Lys Asn Phe Lys Pro Thr  
 35 40 45  
 Lys Tyr Ser Ser Ile Cys Ser Glu His Phe Thr Pro Asp Cys Phe Lys  
 50 55 60  
 Arg Glu Cys Asn Asn Lys Leu Leu Lys Glu Asn Ala Val Pro Thr Ile  
 65 70 75 80

00629469.072800



Phe Leu Cys Thr Glu Pro His Asp Lys Lys Glu Asp Leu Leu Glu Pro  
85 90 95  
Gln Glu Gln Leu Pro Pro Pro Pro Leu Pro Pro Pro Val Ser Gln Val  
100 105 110  
Asp Ala Ala Ile Gly Leu Leu Met Pro Pro Leu Gln Thr Pro Val Asn  
115 120 125  
Leu Ser Val Phe Cys Asp His Asn Tyr Thr Val Glu Asp Thr Met His  
130 135 140  
Gln Arg Lys Arg Ile His Gln Leu Glu Gln Gln Val Glu Lys Leu Arg  
145 150 155 160  
Lys Lys Leu Lys Thr Ala Gln Gln Arg Cys Arg Arg Gln Glu Arg Gln  
165 170 175  
Leu Glu Lys Leu Lys Glu Val Val His Phe Gln Lys Glu Lys Asp Asp  
180 185 190  
Val Ser Glu Arg Gly Tyr Val Ile Leu Pro Asn Asp Tyr Phe Glu Ile  
195 200 205  
Val Glu Val Pro Ala  
210

<210> 11441  
<211> 2244  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (87).. (1340)

<400> 11441  
cagctgaatg ggcgcgagag cggcgctggg ggcggtggg ggcggggggt accgggctgg 60  
cggccggccg gcgccccctc attagtatgc ggacgaaggc ggcgggctgc gcggagcggc 120  
gtcccctgca gccgcggacc gaggcagcgg cggcacctgc cggccgagca atgccaagtg 180  
agtacacctg tgtgaaactg agaagtgatt gctcgaggcc ttccctgcaa tggtagaccc 240  
gagctcaaag caagatgaga aggccagct tgttattaaa agacatcctc aaatgtacat 300  
tgcttgtgtt tggagtgtgg atcctttata tctcaagtt aaattatact actgaagaat 360  
gtgacatgaa aaaaatgcat tatgtggacc ctgaccatgt aaagagagct cagaaatatg 420  
ctcagcaagt ctgcagaag gaatgtcgtc ccaagtttgc caagacatca atggcgctgt 480  
tatttgagca caggtatagc gtggacttac tcccttttgt gcagaaggcc cccaaagaca 540  
gtgaagctga gtccaagtac gatcctcctt ttgggttccg gaagttctcc agtaaagtcc 600  
agaccctctt ggaactcttg ccagagcacg acctccctga acacttgaaa gccaaagacct 660  
gtcggcgctg tgtggttatt ggaagcggag gaatactgca cggattagaa ctgggccaca 720  
ccctgaacca gttcgatgtt gtgataaggt taaacagtgc accagttgag ggatatcag 780  
aacatgttgg aaataaaaact actataagga tgacttatcc agagggcgca ccaactgtctg 840  
acctgaata ttattccaat gacttatttg ttgctgtttt atttaagagt gttgatttca 900  
actggcttca agcaatggta aaaaaggaaa ccttgccatt ctgggtacga ctcttctttt 960  
ggaagcagggt ggcagaaaaa atcccactgc agccaaaaca tttcaggatt ttgaatccag 1020  
ttatcatcaa agagactgcc tttgacatcc ttcagtactc agagcctcag tcaaggttct 1080

09629459.072800

```

ggggccgaga taagaacgtc cccacaatcg gtgtcattgc cgttgtctta gccacacatc 1140
tgtgcgatga agtcagtttg gcggtttttg gatatgacct caatcaaccc agaacacctt 1200
tgcactactt cgacagtcaa tgcattggctg ctatgaactt tcagaccatg cataatgtga 1260
caacggaaac caagttcctc ttaaagctgg tcaaagaggg agtgggtgaaa gatctcagtg 1320
gaggcattga tcgtgaattt tgaacacaga aaacctcagt tgaaaaatgca actctaactc 1380
tgagagctgt ttttgacagc cttcttgatg tattttotcca tcctgcagat actttgaagt 1440
gcagctcatg tttttaactt ttaattttaa aacacaaaaa aaatttttagc tcttccact 1500
tttttttttc ctattttatt gaggtcagtg tttgtttttg cacaccattt tgtaaatgaa 1560
acttaagaat tgaattggaa agacttctca aagagaattg tatgtaacga tgttgtattg 1620
atctttaaga aagtaattta atttgtaaaa cttctgctcg tttaactgc acattgaata 1680
caggttaacta attggaagga gaggggaggt cactcttttg atgggtggccc tgaacctcat 1740
tctggttccc tgctgcgctg cttgggtgtga cccacggagg atccactccc aggatgacgt 1800
gctccgtagc tctgctgctg atactgggtc tgogatgcag cggcgtgagg cctgggctgg 1860
ttggagaagg tcacaacctt tctctgttgg tctgccttct gctgaaagac tcgagaacca 1920
accaggaag ctgtcctgga ggtccctggg cggagaggga catagaatct gtgacctctg 1980
acaactgtga agccacctg ggctacagaa accacagtct tcccagcaat tattacaatt 2040
cttgaattcc ttggggattt tttactgccc tttaaaagca ctttaagtgt agatctaacg 2100
tgttccagtg tctgtctgag gtgacttaaa aaatcagaac aaaacttcta ttatccagag 2160
tcatgggaga gtacacctt tccaggaata atgttttggg aaacactgaa atgaaatctt 2220
cccagtatta taaattgtgt attt                                     2244

```

<210> 11442  
 <211> 418  
 <212> PRT  
 <213> Homo sapiens

<400> 11442

Met	Arg	Thr	Lys	Ala	Ala	Gly	Cys	Ala	Glu	Arg	Arg	Pro	Leu	Gln	Pro
1				5					10					15	
Arg	Thr	Glu	Ala	Ala	Ala	Ala	Pro	Ala	Gly	Arg	Ala	Met	Pro	Ser	Glu
			20						25				30		
Tyr	Thr	Tyr	Val	Lys	Leu	Arg	Ser	Asp	Cys	Ser	Arg	Pro	Ser	Leu	Gln
			35					40					45		
Trp	Tyr	Thr	Arg	Ala	Gln	Ser	Lys	Met	Arg	Arg	Pro	Ser	Leu	Leu	Leu
			50				55				60				
Lys	Asp	Ile	Leu	Lys	Cys	Thr	Leu	Leu	Val	Phe	Gly	Val	Trp	Ile	Leu
			65			70				75					80
Tyr	Ile	Leu	Lys	Leu	Asn	Tyr	Thr	Thr	Glu	Glu	Cys	Asp	Met	Lys	Lys
				85					90					95	
Met	His	Tyr	Val	Asp	Pro	Asp	His	Val	Lys	Arg	Ala	Gln	Lys	Tyr	Ala
			100					105					110		
Gln	Gln	Val	Leu	Gln	Lys	Glu	Cys	Arg	Pro	Lys	Phe	Ala	Lys	Thr	Ser
			115				120					125			
Met	Ala	Leu	Leu	Phe	Glu	His	Arg	Tyr	Ser	Val	Asp	Leu	Leu	Pro	Phe
			130			135					140				
Val	Gln	Lys	Ala	Pro	Lys	Asp	Ser	Glu	Ala	Glu	Ser	Lys	Tyr	Asp	Pro
				150						155				160	

00629459-072800

Pro Phe Gly Phe Arg Lys Phe Ser Ser Lys Val Gln Thr Leu Leu Glu  
165 170 175  
Leu Leu Pro Glu His Asp Leu Pro Glu His Leu Lys Ala Lys Thr Cys  
180 185 190  
Arg Arg Cys Val Val Ile Gly Ser Gly Gly Ile Leu His Gly Leu Glu  
195 200 205  
Leu Gly His Thr Leu Asn Gln Phe Asp Val Val Ile Arg Leu Asn Ser  
210 215 220  
Ala Pro Val Glu Gly Tyr Ser Glu His Val Gly Asn Lys Thr Thr Ile  
225 230 235 240  
Arg Met Thr Tyr Pro Glu Gly Ala Pro Leu Ser Asp Leu Glu Tyr Tyr  
245 250 255  
Ser Asn Asp Leu Phe Val Ala Val Leu Phe Lys Ser Val Asp Phe Asn  
260 265 270  
Trp Leu Gln Ala Met Val Lys Lys Glu Thr Leu Pro Phe Trp Val Arg  
275 280 285  
Leu Phe Phe Trp Lys Gln Val Ala Glu Lys Ile Pro Leu Gln Pro Lys  
290 295 300  
His Phe Arg Ile Leu Asn Pro Val Ile Ile Lys Glu Thr Ala Phe Asp  
305 310 315 320  
Ile Leu Gln Tyr Ser Glu Pro Gln Ser Arg Phe Trp Gly Arg Asp Lys  
325 330 335  
Asn Val Pro Thr Ile Gly Val Ile Ala Val Val Leu Ala Thr His Leu  
340 345 350  
Cys Asp Glu Val Ser Leu Ala Gly Phe Gly Tyr Asp Leu Asn Gln Pro  
355 360 365  
Arg Thr Pro Leu His Tyr Phe Asp Ser Gln Cys Met Ala Ala Met Asn  
370 375 380  
Phe Gln Thr Met His Asn Val Thr Thr Glu Thr Lys Phe Leu Leu Lys  
385 390 395 400  
Leu Val Lys Glu Gly Val Val Lys Asp Leu Ser Gly Gly Ile Asp Arg  
405 410 415  
Glu Phe

<210> 11443  
<211> 1259  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (209).. (1240)

<400> 11443  
aagtctcgta tcgcgccgg gaggcgccgg agcccagcgg ctggcgccag atccaggctc 60  
ctggaagaac catgtccggc agctactggt catgccaggc acacactgct gcccaagagg 120

000220.69462550

agctgctgtt tgaattatct gtgaatgttg ggaagaggaa tgccagagct gccggctgaa 180  
aattacccaa ccaagagaaa tctgcaggat ggactttctg gtcctcttct tgttctacct 240  
ggcttcgggtg ctgatgggtc ttgttcttat ctgcgtctgc tcgaaaaccc atagcttgaa 300  
aggcctggcc aggggaggag cacagatatt ttctgtata attccagaat gtcttcagag 360  
agccgtgcat ggattgcttc attacctttt ccatacgaga aaccacacct tcattgtcct 420  
gcacctggtc ttgcaaggga tggtttatac tgagtacacc tgggaagtat ttggctactg 480  
tcaggagctg gagttgtcct tgcattacct tcttctgccc tatctgctgc taggtgtaaa 540  
cctgtttttt ttcacctga cttgtggaac caatcctggc attataacaa aagcaaata 600  
attattattt cttcatgttt atgaatttga tgaagtgatg tttccaaaga acgtgagggtg 660  
ctctacttgt gatttaagga aaccagctcg atccaagcac tgcagtgtgt gtaactgggtg 720  
tgtgcaccgt ttcgaccatc actgtgtttg ggtgaacaac tgcctcgggg cctggaacat 780  
caggtacttc ctcatctacg tcttgacctt gacggcctcg gctgccaccg tcgccattgt 840  
gagcaccact tttctgggtc acttgggtgt gatgtcagat ttataaccagg agacttacat 900  
cgatgacctt ggacacctcc atgttatgga cactgtcttt cttattcagt acctgttctt 960  
gacttttcca cggattgtct tcatgctggg ctttctgtgt gttctgagct tctcctggg 1020  
tggtacctg ttgtttgtcc tgtatctggc ggccaccaac cagactacta acgagtggta 1080  
cagaggtgac tgggcctggt gccagcgttg tcccttctgt gcctggcctc cgtcagcaga 1140  
gccccaaagtc caccggaaca ttcactcca tgggcttcgg agcaaccttc aagagatctt 1200  
tctacctgcc tttcatgtc atgagaggaa gaaacaagaa tgacaagtgt atgactgcc 1259

<210> 11444  
<211> 344  
<212> PRT  
<213> Homo sapiens

<400> 11444  
Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Ser Val Leu Met  
1 5 10 15  
Gly Leu Val Leu Ile Cys Val Cys Ser Lys Thr His Ser Leu Lys Gly  
20 25 30  
Leu Ala Arg Gly Gly Ala Gln Ile Phe Ser Cys Ile Ile Pro Glu Cys  
35 40 45  
Leu Gln Arg Ala Val His Gly Leu Leu His Tyr Leu Phe His Thr Arg  
50 55 60  
Asn His Thr Phe Ile Val Leu His Leu Val Leu Gln Gly Met Val Tyr  
65 70 75 80  
Thr Glu Tyr Thr Trp Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu  
85 90 95  
Ser Leu His Tyr Leu Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu  
100 105 110  
Phe Phe Phe Thr Leu Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys  
115 120 125  
Ala Asn Glu Leu Leu Phe Leu His Val Tyr Glu Phe Asp Glu Val Met  
130 135 140  
Phe Pro Lys Asn Val Arg Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala  
145 150 155 160  
Arg Ser Lys His Cys Ser Val Cys Asn Trp Cys Val His Arg Phe Asp

003240 69462960

<210> 11445  
 <211> 2512  
 <212> DNA  
 <213> Homo sapiens

**<400> 11445**

gCgggggcctc	taccggcccg	atggagcgcg	cgggcgctac	tagccgcggg	ggccaagccc	60
ctggcttctt	actgcggctt	catactgagg	gccgagccga	ggcggcgcg	gtgcaggagc	120
aggacttacg	gcagtggggg	ctgacaggga	ttcacctacg	ctcttaccag	ctggagggag	180
taaactggct	cgcccagcgc	ttccattgtc	agaatggctg	tatcctggga	gatgagatgg	240
gcctggggaa	gacctgccag	actattgctc	tcttcattta	tttggcagga	agattaaatg	300
atgaagggcc	atttctgatt	ctttgtccct	tgtctgtttt	gagcaactgg	aaagaagaaa	360
tgcacagatt	tgctccaggt	ctttcctgtg	taacatatgc	aggcgacaag	gaggaaagag	420
cctgccttca	gcaagacctg	aaacaggagt	cacgttttca	tgtgctactg	actacctatg	480
agatttgctt	gaaagatgca	tcattttotaa	aatcattccc	ttggagtgtt	cttgttgtgg	540
atgaagctca	caggttgaaa	aaccaaaagct	ccctgctgca	taagaccttg	tcagagttct	600
cagtagtctt	cagtctcctg	ttgaccggaa	ctcccatcca	gaacagcctc	caagagctct	660
actccctcct	cagttttgtg	gagcctgatc	tcctttccaa	ggaagagggtg	ggagatttta	720
ttcaacgcta	ccaggatat	gagaaaagaat	ctgagtcagc	aagtgaactg	cacaaaactct	780

```

tgcagccatt tctgctgagg cgagtgaag ctgaggtagc tacagagctt cccaagaaga 840
cagaagtagt gatataccat ggcatgtcag cattgcagaa gaaatactac aaggccattt 900
tgatgaaaga cctagatgca ttgaaaatg agacggcaaa gaaggttaaa ctacagaaca 960
ttttgtccca gcttcgaaag tgtgtggatc acccatattt gtttgatggt gtggagccgg 1020
agccttttga agttggagac cacctgactg aggctagtgg gaagcttcac ctgctggata 1080
agctactagc attcctgtat tctggggggc atcgggtttt acttttctcc caaatgaccc 1140
agatgttggg tattctccaa gactatatgg attacagagg ctacagctat gagcgtgtgg 1200
atggttctgt gagaggagaa gagagacact tggccattaa gaacttttga cagcagccca 1260
ttttcgtttt tctcctgagt actagggcag gtggagtgg catgaactta acagcagcag 1320
atactgtgat ttttgttgac agtgacttta atcctcagaa tgacttgcaa gcagctgcca 1380
gggctcatcg cattggccaa aacaagtctg ttaaagtatt tcggctgatt ggtcgagaca 1440
ctgtggaaga aatagtctat aggaaagcag cctccaaact gcagctcacc aacatgatca 1500
tagaaggagg ccattttact ctggggagccc agaaaccgcg tgccgatgct gacctccagt 1560
tgagtgagat actcaaattt ggttttgata aactgctggc ctctgagggg agcaccatgg 1620
atgaaataga cctggagtcc atcctggggag aaacaaaaga tggccagtgg gtctctgatg 1680
ccttgccctgc agcagaagga gggagcagag atcaagagga aggaaaaaat catatgtact 1740
tatttgaagg taaagattat tctaaagagc ccagtaagga agacagaaaa tcatttgaac 1800
aactggtaaa ccttcagaaa acccttttgg agaaagctag tcaagagggc cgatcactcc 1860
gaaataaagg cagtgttctc atcccaggcc ttgtggaggg atctaccaaa aggaagcggg 1920
ttctgagtcc agaagagctg gaggacagac agaagaaaag acaagaagca gctgccaa 1980
gaaggagact catagaggag aagaagaggc aaaaggaaga ggctgaacat aagaaaaagg 2040
tggcctggtg ggaatccaac aattaccagt ccttctgcct gccctctgag gagagcgagc 2100
cagaggacct tgagaatggg gaagagagct ctgctgagct ggattaccaa gaccagatg 2160
ctacttcctt caagtacgtt agtgggtgat tccccaccc tcagggtggg gccgaggatg 2220
ctctcattgt gcactgcgta gatgactctg gccactgggg cagaggtggt ttatttacag 2280
ctctggaaaa gcgatccgct gagccaagaa aaatatatga gctggctggg aaaatgaaag 2340
acctgagttt gggaggtgtc cttttatttc ctgttgatga taaagaatca agaaacaaag 2400
ggcaagattt gttggccttg attgtggctc agcatcgtga tcgttccaat gtcctgtctg 2460
gcattaagat ggcagcccta gaagagggcc tgaagaagat atttttagca gc 2512

```

<210> 11446  
 <211> 830  
 <212> PRT  
 <213> Homo sapiens

<400> 11446

Met	Glu	Arg	Ala	Gly	Ala	Thr	Ser	Arg	Gly	Gly	Gln	Ala	Pro	Gly	Phe
1				5					10					15	
Leu	Leu	Arg	Leu	His	Thr	Glu	Gly	Arg	Ala	Glu	Ala	Ala	Arg	Val	Gln
			20					25					30		
Glu	Gln	Asp	Leu	Arg	Gln	Trp	Gly	Leu	Thr	Gly	Ile	His	Leu	Arg	Ser
		35					40					45			
Tyr	Gln	Leu	Glu	Gly	Val	Asn	Trp	Leu	Ala	Gln	Arg	Phe	His	Cys	Gln
	50					55				60					
Asn	Gly	Cys	Ile	Leu	Gly	Asp	Glu	Met	Gly	Leu	Gly	Lys	Thr	Cys	Gln
65				70					75					80	
Thr	Ile	Ala	Leu	Phe	Ile	Tyr	Leu	Ala	Gly	Arg	Leu	Asn	Asp	Glu	Gly

85																90																95																																																																																																																																																																				
Pro	Phe	Leu	Ile	Leu	Cys	Pro	Leu	Ser	Val	Leu	Ser	Asn	Trp	Lys	Glu	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000
Glu	Met	Gln	Arg	Phe	Ala	Pro	Gly	Leu	Ser	Cys	Val	Thr	Tyr	Ala	Gly	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000		
Asp	Lys	Glu	Glu	Arg	Ala	Cys	Leu	Gln	Gln	Asp	Leu	Lys	Gln	Glu	Ser	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665																																																																									

-4921/13211-

465 470 475 480  
Arg Lys Ala Ala Ser Lys Leu Gln Leu Thr Asn Met Ile Ile Glu Gly  
485 490 495  
Gly His Phe Thr Leu Gly Ala Gln Lys Pro Ala Ala Asp Ala Asp Leu  
500 505 510  
Gln Leu Ser Glu Ile Leu Lys Phe Gly Leu Asp Lys Leu Leu Ala Ser  
515 520 525  
Glu Gly Ser Thr Met Asp Glu Ile Asp Leu Glu Ser Ile Leu Gly Glu  
530 535 540  
Thr Lys Asp Gly Gln Trp Val Ser Asp Ala Leu Pro Ala Ala Glu Gly  
545 550 555 560  
Gly Ser Arg Asp Gln Glu Glu Gly Lys Asn His Met Tyr Leu Phe Glu  
565 570 575  
Gly Lys Asp Tyr Ser Lys Glu Pro Ser Lys Glu Asp Arg Lys Ser Phe  
580 585 590  
Glu Gln Leu Val Asn Leu Gln Lys Thr Leu Leu Glu Lys Ala Ser Gln  
595 600 605  
Glu Gly Arg Ser Leu Arg Asn Lys Gly Ser Val Leu Ile Pro Gly Leu  
610 615 620  
Val Glu Gly Ser Thr Lys Arg Lys Arg Val Leu Ser Pro Glu Glu Leu  
625 630 635 640  
Glu Asp Arg Gln Lys Lys Arg Gln Glu Ala Ala Ala Lys Arg Arg Arg  
645 650 655  
Leu Ile Glu Glu Lys Lys Arg Gln Lys Glu Glu Ala Glu His Lys Lys  
660 665 670  
Lys Val Ala Trp Trp Glu Ser Asn Asn Tyr Gln Ser Phe Cys Leu Pro  
675 680 685  
Ser Glu Glu Ser Glu Pro Glu Asp Leu Glu Asn Gly Glu Glu Ser Ser  
690 695 700  
Ala Glu Leu Asp Tyr Gln Asp Pro Asp Ala Thr Ser Leu Lys Tyr Val  
705 710 715 720  
Ser Gly Asp Val Thr His Pro Gln Ala Gly Ala Glu Asp Ala Leu Ile  
725 730 735  
Val His Cys Val Asp Asp Ser Gly His Trp Gly Arg Gly Gly Leu Phe  
740 745 750  
Thr Ala Leu Glu Lys Arg Ser Ala Glu Pro Arg Lys Ile Tyr Glu Leu  
755 760 765  
Ala Gly Lys Met Lys Asp Leu Ser Leu Gly Gly Val Leu Leu Phe Pro  
770 775 780  
Val Asp Asp Lys Glu Ser Arg Asn Lys Gly Gln Asp Leu Leu Ala Leu  
785 790 795 800  
Ile Val Ala Gln His Arg Asp Arg Ser Asn Val Leu Ser Gly Ile Lys  
805 810 815  
Met Ala Ala Leu Glu Glu Gly Leu Lys Lys Ile Phe Leu Ala  
820 825 830

<210> 11447

00321069462960



<211> 2286  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (169).. (2286)

<400> 11447

cagagcgtcg	gcgccacggc	cgagaacaca	tcttcgccgc	cgagctgagc	tgggccgagc	60
cggaggttgt	ggtgtctgac	tgcgctgggc	accctcgggc	cgcagcggtg	ctctggggcc	120
aggtgccacc	ggccattgtc	caggcagctg	tgtgcaagcc	aaagaagcat	gaggacactg	180
gaagactcct	cggggacagt	cctgcaccgc	ctcatccagg	agcagctgcg	ctacggcaac	240
ctgactgaga	cgcgcacgct	gctagccatc	cagcagcagg	ccctgagggg	tggggctgga	300
actgggggta	cagggagccc	ccaggcctcc	ctggagatcc	tggccccaga	ggacagtcag	360
gtgctgcagc	aggccaccag	gcaggagccc	cagggccagg	agcaccaggg	cggtgagaac	420
cacctggcag	agaacaccct	ctaccggcta	tgcccacagc	ccagcaaggg	agaggagctg	480
cccacctatg	aggaggccaa	agcccactcg	cagtactatg	cggcccagca	ggcagggacc	540
cggccacatg	cgggggaccg	agatccccgt	ggggcccccg	gaggcagtcg	gaggcaggac	600
gaggccctgc	gggagctgag	gcatgggcac	gtgcgctcgt	tgagtgaacg	gctccttcag	660
ttgtccctgg	agaggaacgg	cgcccggggc	cccagccaca	tgagctcctc	ccacagcttc	720
ccacagctgg	cccgcaccca	gcagggcccc	ccactgaggg	gccccctgc	tgagggccca	780
gagtcgccgag	gacccccacc	tcagtaccct	catgttgtac	tagctcatga	gaccaccact	840
gctgtcactg	accacgggta	ccgtgcccg	ggcagcccg	acttcagca	tgctgaagtc	900
aggatcctgc	aggcccaggt	gcctcctgtg	ttcctccaac	agcagcagca	gtaccagtac	960
ctgcagcaat	ctcaggagca	ccccctccc	ccacatccag	ctgctctcgg	ccatggcccc	1020
ctgagctccc	tcagtccacc	tgctgtggag	gggccagtga	gtgcccaggc	ctcctcagcc	1080
acctcgggca	gtgccaccct	ggcccagatg	gaggccgtgc	tgagggagaa	tgccaggctg	1140
cagagagaca	atgagcggct	gcagagggag	ctggagagct	ctgcggagaa	ggctggccgc	1200
attgagaagc	tggaaagcga	aatccagcgg	ctctctgagg	cccatgagag	cctgaccaga	1260
gcctcctcca	agcgtgaggc	cctggagaag	accatgcgga	acaagatgga	cagtgaatg	1320
aggaggctgc	aagacttcaa	ccgggatctt	agagagagat	tggaatctgc	aaatcgccgc	1380
ctggcaagca	agacacagga	ggcccaggcc	ggcagtcagg	acatggtggc	caagctgctt	1440
gctcagagct	acgaacagca	gcaggagcaa	gagaagctgg	agcgagagat	ggcactgctg	1500
cgcggcgcca	tcgaggacca	gcggcgcgct	gcgagctgc	tggagcaggc	tctgggcaat	1560
gcgcagggcc	gggcagctcg	agccgaagag	gagctgcgca	agaagcaggc	ctatgtggag	1620
aaagtggagc	ggctgcagca	ggcgctcggg	cagctgcagg	cagcctgtga	gaagcgggag	1680
cagctggagc	tgctctgcg	gactcgcctg	gagcaggaac	tcaaggccct	gcgtgcacag	1740
cagagacagg	caggtgcccc	aggtggtagc	agtggcagtg	gtgggtctcc	agagctcagc	1800
gccctgcgac	tgtcagaaca	actgcgagag	aaggaggagc	agatcctggc	gctggaggcc	1860
gacatgacca	tgtgggagca	gaagtatttg	gaggaacatg	ccatgaggca	gtttgccatg	1920
gatgcggctg	ccacggctgc	tgctcagcgt	gacaccactc	tcacccgaca	ttccccccag	1980
ccctcaccca	gcagcagctt	caatgagggt	ctgctcactg	gtggccacag	gcacagggag	2040
atggaaagca	ggttaaaggt	gctccatgcc	cagatcctgg	agaaggatgc	agtgatcaag	2100
gtccttcagc	agcgtccag	gagagaccct	ggcaaggcca	tccagggctc	cctgcggcct	2160
gccaaagtgc	tgccatctgt	tttcgcggct	gcggcagcag	gaaccagggg	ctggcaaggg	2220
ctctcttcta	gtgagcgaca	aacagcagac	gcccctgctc	ggctgactac	agcagacaga	2280
gcaccc						2286

0032/0 69462960

<210> 11448  
 <211> 706  
 <212> PRT  
 <213> Homo sapiens

<400> 11448

Met	Arg	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Thr	Val	Leu	His	Arg	Leu	Ile
1				5					10					15	
Gln	Glu	Gln	Leu	Arg	Tyr	Gly	Asn	Leu	Thr	Glu	Thr	Arg	Thr	Leu	Leu
			20					25					30		
Ala	Ile	Gln	Gln	Gln	Ala	Leu	Arg	Gly	Gly	Ala	Gly	Thr	Gly	Gly	Thr
		35					40					45			
Gly	Ser	Pro	Gln	Ala	Ser	Leu	Glu	Ile	Leu	Ala	Pro	Glu	Asp	Ser	Gln
	50					55					60				
Val	Leu	Gln	Gln	Ala	Thr	Arg	Gln	Glu	Pro	Gln	Gly	Gln	Glu	His	Gln
65					70				75						80
Gly	Gly	Glu	Asn	His	Leu	Ala	Glu	Asn	Thr	Leu	Tyr	Arg	Leu	Cys	Pro
			85					90						95	
Gln	Pro	Ser	Lys	Gly	Glu	Glu	Leu	Pro	Thr	Tyr	Glu	Glu	Ala	Lys	Ala
		100						105					110		
His	Ser	Gln	Tyr	Tyr	Ala	Ala	Gln	Gln	Ala	Gly	Thr	Arg	Pro	His	Ala
		115					120					125			
Gly	Asp	Arg	Asp	Pro	Arg	Gly	Ala	Pro	Gly	Gly	Ser	Arg	Arg	Gln	Asp
	130					135					140				
Glu	Ala	Leu	Arg	Glu	Leu	Arg	His	Gly	His	Val	Arg	Ser	Leu	Ser	Glu
145					150					155					160
Arg	Leu	Leu	Gln	Leu	Ser	Leu	Glu	Arg	Asn	Gly	Ala	Arg	Ala	Pro	Ser
			165					170						175	
His	Met	Ser	Ser	Ser	His	Ser	Phe	Pro	Gln	Leu	Ala	Arg	Asn	Gln	Gln
		180						185					190		
Gly	Pro	Pro	Leu	Arg	Gly	Pro	Pro	Ala	Glu	Gly	Pro	Glu	Ser	Arg	Gly
	195					200						205			
Pro	Pro	Pro	Gln	Tyr	Pro	His	Val	Val	Leu	Ala	His	Glu	Thr	Thr	Thr
	210					215						220			
Ala	Val	Thr	Asp	Pro	Arg	Tyr	Arg	Ala	Arg	Gly	Ser	Pro	His	Phe	Gln
225					230					235					240
His	Ala	Glu	Val	Arg	Ile	Leu	Gln	Ala	Gln	Val	Pro	Pro	Val	Phe	Leu
			245						250					255	
Gln	Gln	Gln	Gln	Gln	Tyr	Gln	Tyr	Leu	Gln	Gln	Ser	Gln	Glu	His	Pro
			260					265					270		
Pro	Pro	Pro	His	Pro	Ala	Ala	Leu	Gly	His	Gly	Pro	Leu	Ser	Ser	Leu
	275						280					285			
Ser	Pro	Pro	Ala	Val	Glu	Gly	Pro	Val	Ser	Ala	Gln	Ala	Ser	Ser	Ala
	290					295					300				
Thr	Ser	Gly	Ser	Ala	His	Leu	Ala	Gln	Met	Glu	Ala	Val	Leu	Arg	Glu
305					310					315					320

003270:69462960

Asn	Ala	Arg	Leu	Gln	Arg	Asp	Asn	Glu	Arg	Leu	Gln	Arg	Glu	Leu	Glu
				325					330					335	
Ser	Ser	Ala	Glu	Lys	Ala	Gly	Arg	Ile	Glu	Lys	Leu	Glu	Ser	Glu	Ile
			340					345					350		
Gln	Arg	Leu	Ser	Glu	Ala	His	Glu	Ser	Leu	Thr	Arg	Ala	Ser	Ser	Lys
		355					360					365			
Arg	Glu	Ala	Leu	Glu	Lys	Thr	Met	Arg	Asn	Lys	Met	Asp	Ser	Glu	Met
	370					375					380				
Arg	Arg	Leu	Gln	Asp	Phe	Asn	Arg	Asp	Leu	Arg	Glu	Arg	Leu	Glu	Ser
385					390					395					400
Ala	Asn	Arg	Arg	Leu	Ala	Ser	Lys	Thr	Gln	Glu	Ala	Gln	Ala	Gly	Ser
				405					410					415	
Gln	Asp	Met	Val	Ala	Lys	Leu	Leu	Ala	Gln	Ser	Tyr	Glu	Gln	Gln	Gln
		420						425					430		
Glu	Gln	Glu	Lys	Leu	Glu	Arg	Glu	Met	Ala	Leu	Leu	Arg	Gly	Ala	Ile
	435						440					445			
Glu	Asp	Gln	Arg	Arg	Arg	Ala	Glu	Leu	Leu	Glu	Gln	Ala	Leu	Gly	Asn
	450					455					460				
Ala	Gln	Gly	Arg	Ala	Ala	Arg	Ala	Glu	Glu	Glu	Leu	Arg	Lys	Lys	Gln
465					470					475					480
Ala	Tyr	Val	Glu	Lys	Val	Glu	Arg	Leu	Gln	Gln	Ala	Leu	Gly	Gln	Leu
				485					490					495	
Gln	Ala	Ala	Cys	Glu	Lys	Arg	Glu	Gln	Leu	Glu	Leu	Arg	Leu	Arg	Thr
			500					505					510		
Arg	Leu	Glu	Gln	Glu	Leu	Lys	Ala	Leu	Arg	Ala	Gln	Gln	Arg	Gln	Ala
	515						520					525			
Gly	Ala	Pro	Gly	Gly	Ser	Ser	Gly	Ser	Gly	Gly	Ser	Pro	Glu	Leu	Ser
	530					535					540				
Ala	Leu	Arg	Leu	Ser	Glu	Gln	Leu	Arg	Glu	Lys	Glu	Glu	Gln	Ile	Leu
545						550					555				560
Ala	Leu	Glu	Ala	Asp	Met	Thr	Met	Trp	Glu	Gln	Lys	Tyr	Leu	Glu	Glu
				565					570					575	
His	Ala	Met	Arg	Gln	Phe	Ala	Met	Asp	Ala	Ala	Ala	Thr	Ala	Ala	Ala
			580					585					590		
Gln	Arg	Asp	Thr	Thr	Leu	Ile	Arg	His	Ser	Pro	Gln	Pro	Ser	Pro	Ser
		595					600					605			
Ser	Ser	Phe	Asn	Glu	Gly	Leu	Leu	Thr	Gly	Gly	His	Arg	His	Gln	Glu
	610					615					620				
Met	Glu	Ser	Arg	Leu	Lys	Val	Leu	His	Ala	Gln	Ile	Leu	Glu	Lys	Asp
625					630					635					640
Ala	Val	Ile	Lys	Val	Leu	Gln	Gln	Arg	Ser	Arg	Arg	Asp	Pro	Gly	Lys
				645					650					655	
Ala	Ile	Gln	Gly	Ser	Leu	Arg	Pro	Ala	Lys	Ser	Val	Pro	Ser	Val	Phe
			660					665					670		
Ala	Ala	Ala	Ala	Ala	Gly	Thr	Gln	Gly	Trp	Gln	Gly	Leu	Ser	Ser	Ser
	675						680					685			
Glu	Arg	Gln	Thr	Ala	Asp	Ala	Pro	Ala	Arg	Leu	Thr	Thr	Ala	Asp	Arg
	690					695					700				

008220 69462960

Ala Pro  
705

<210> 11449  
<211> 2256  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (82).. (1350)

<400> 11449  
gtcgtcgtc cgcgccccac cgccctcggc cgctgccgoc gccaccgccc tcggccgctg 60  
ccgaggcctc ctgcagccat catgtccgcc agcgccgtct acgtgctgga cctgaagggc 120  
aaggtgctca tctgccggaa ctaccgtggc gacgtggaca tgtcagaggt ggagcacttc 180  
atgcccatcc tgatggagaa ggaggaggag gggatgctgt cggccatcct ggcccacggg 240  
ggggtccgtt tcatgtggat caaacacaac aacctgtatc tggttgccac atccaagaag 300  
aacgcgtgcg tgtcgtcgtt cttttctttc ctctataagg tgggtgcagg gttttccgag 360  
tacttcaagg agctggagga ggagagcatc cgggacaact ttgttatcat ctacgagctg 420  
ctggacgagc tcatggactt cggctacccc cagaccaccg acagcaagat cctgcaggag 480  
tacatcactc aggaaggcca caagctggaa acagggggccc cggggccacc agccaccgtc 540  
accaacgcgg tgtcctggcg gtccgaaggc atcaagtatc ggaagaatga ggtgttcttg 600  
gacgtcatcg agtctgtcaa cctcttggtc agcgccaacg gcaatgtcct gcgcagcgag 660  
atcgtgggct ccatcaagat gcgagtcctc ctctcgggca tgcccgagct gcgcctgggc 720  
ctcaacgaca aggtcctctt tgacaacacg ggccgcggca aaagcaaata cgtggagctg 780  
gaggatgtga agttccacca gtgtgtgcgg ctatcacgct tcgagaatga ccgcaccatc 840  
tccttcatcc caccgacgg cgagttcgag ctcatgtcct accgtctcaa caccacgtc 900  
aagccttcga tatggatcga gtcgggtgat gagaagcact cccacagccg catcgagtac 960  
atgatcaagg ccaaaagcca gttcaagcgg cggtaacacg ccaacaacgt ggagatccac 1020  
attcccggtc ccaatgatgc cgactacccc aagttcaaga cgacggtggg gagcgtaag 1080  
tgggtccccc agaacagcga gatcgtgtgg tccatcaagt ccttcccggg cggcaaggag 1140  
tacctgatgc gggcccactt cggcctgcct agtgtggagg ccgaagacaa ggagggcaag 1200  
ccccgatca gtgtcaagtt cgagatccct tacttcaact cctccggcat ccagggtgcg 1260  
tacctgaaga tcattgagaa gagtgggtac caggccctgc cctgggtgcg ttatatcacg 1320  
cagaatggag attaccagct ccggacccag tgaggggctg tcgcagccaa cccccggcc 1380  
tcggggctcc tgggtggcagc accagggggac acacctgcca aaccaccag atggaggggc 1440  
cctccctggt ctctggccac cctcccagcc tctgccagg gaccctgcc ttcccaggc 1500  
catctgtctt gccgtcgaca ctctctcag aagccccttt ccagaagag gctggtcttc 1560  
aagaagtctc gtttctttgc ccctgaagtc agtttcaggg gaaggatgtg aaatttttcc 1620  
gtgtagaggt tacagccttt tatgtgtttg agctcccagg taccaaaaag cttggccaac 1680  
gcttgccagc cagccagctg caggtggcat ctgccacgaa ggaagcgcca gcctcgccag 1740  
gccagcaggg gcgtcgtttt gttgccattt tgttgaacgt tatgggttta tgggtgttcc 1800  
tggaacttgt ctttgtgcat tcgttgtgtt ttgtgttacc ctactgtcc ccatgtccca 1860  
cccacgtcct acggcactca ggaagcactt ggtgaggacg agccctcacc cttcttgtct 1920  
tccttcccag cagcgcccg cgcgggccat ttacacgtcg aggttggcac ctggcgcgct 1980  
cggggggccac tgtagcgtct gctgctccc tggactcgca ggccctgcct gtggcgccct 2040

09629469.072300

cccagggcca gcctgggtca cgagatgctg tcactcagcc agatcagtat tgacccacca 2100  
 ggggaggtgg ggtttgggtga gagacgccag cctcagaactt tttcccactg aggggtccaga 2160  
 gagcggggcc acgtgtcacc cagctctgcg cttgggtcacc cgtcctcccc accctgtgtg 2220  
 tgtttatgtc atagttacat taaattccat tcattg 2256

<210> 11450  
 <211> 423  
 <212> PRT  
 <213> Homo sapiens

<400> 11450

Met	Ser	Ala	Ser	Ala	Val	Tyr	Val	Leu	Asp	Leu	Lys	Gly	Lys	Val	Leu
1				5					10					15	
Ile	Cys	Arg	Asn	Tyr	Arg	Gly	Asp	Val	Asp	Met	Ser	Glu	Val	Glu	His
			20					25					30		
Phe	Met	Pro	Ile	Leu	Met	Glu	Lys	Glu	Glu	Glu	Gly	Met	Leu	Ser	Pro
		35					40					45			
Ile	Leu	Ala	His	Gly	Gly	Val	Arg	Phe	Met	Trp	Ile	Lys	His	Asn	Asn
	50					55					60				
Leu	Tyr	Leu	Val	Ala	Thr	Ser	Lys	Lys	Asn	Ala	Cys	Val	Ser	Leu	Val
65					70					75					80
Phe	Ser	Phe	Leu	Tyr	Lys	Val	Val	Gln	Val	Phe	Ser	Glu	Tyr	Phe	Lys
				85					90					95	
Glu	Leu	Glu	Glu	Glu	Ser	Ile	Arg	Asp	Asn	Phe	Val	Ile	Ile	Tyr	Glu
			100					105					110		
Leu	Leu	Asp	Glu	Leu	Met	Asp	Phe	Gly	Tyr	Pro	Gln	Thr	Thr	Asp	Ser
		115					120					125			
Lys	Ile	Leu	Gln	Glu	Tyr	Ile	Thr	Gln	Glu	Gly	His	Lys	Leu	Glu	Thr
	130					135					140				
Gly	Ala	Pro	Arg	Pro	Pro	Ala	Thr	Val	Thr	Asn	Ala	Val	Ser	Trp	Arg
145					150					155					160
Ser	Glu	Gly	Ile	Lys	Tyr	Arg	Lys	Asn	Glu	Val	Phe	Leu	Asp	Val	Ile
				165				170						175	
Glu	Ser	Val	Asn	Leu	Leu	Val	Ser	Ala	Asn	Gly	Asn	Val	Leu	Arg	Ser
			180					185					190		
Glu	Ile	Val	Gly	Ser	Ile	Lys	Met	Arg	Val	Phe	Leu	Ser	Gly	Met	Pro
		195				200						205			
Glu	Leu	Arg	Leu	Gly	Leu	Asn	Asp	Lys	Val	Leu	Phe	Asp	Asn	Thr	Gly
	210					215					220				
Arg	Gly	Lys	Ser	Lys	Ser	Val	Glu	Leu	Glu	Asp	Val	Lys	Phe	His	Gln
225					230					235					240
Cys	Val	Arg	Leu	Ser	Arg	Phe	Glu	Asn	Asp	Arg	Thr	Ile	Ser	Phe	Ile
				245					250					255	
Pro	Pro	Asp	Gly	Glu	Phe	Glu	Leu	Met	Ser	Tyr	Arg	Leu	Asn	Thr	His
		260						265					270		
Val	Lys	Pro	Ser	Ile	Trp	Ile	Glu	Ser	Val	Ile	Glu	Lys	His	Ser	His
		275					280					285			

09629469.072300

-4927/13211-

Ser Arg Ile Glu Tyr Met Ile Lys Ala Lys Ser Gln Phe Lys Arg Arg  
290 295 300  
Ser Thr Ala Asn Asn Val Glu Ile His Ile Pro Val Pro Asn Asp Ala  
305 310 315 320  
Asp Ser Pro Lys Phe Lys Thr Thr Val Gly Ser Val Lys Trp Val Pro  
325 330 335  
Glu Asn Ser Glu Ile Val Trp Ser Ile Lys Ser Phe Pro Gly Gly Lys  
340 345 350  
Glu Tyr Leu Met Arg Ala His Phe Gly Leu Pro Ser Val Glu Ala Glu  
355 360 365  
Asp Lys Glu Gly Lys Pro Pro Ile Ser Val Lys Phe Glu Ile Pro Tyr  
370 375 380  
Phe Thr Thr Ser Gly Ile Gln Val Arg Tyr Leu Lys Ile Ile Glu Lys  
385 390 395 400  
Ser Gly Tyr Gln Ala Leu Pro Trp Val Arg Tyr Ile Thr Gln Asn Gly  
405 410 415  
Asp Tyr Gln Leu Arg Thr Gln  
420

<210> 11451  
<211> 2339  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (150).. (1367)

<400> 11451  
attttgctggg aagaggaggc gctgtacctg cagtgtctgt ttttctgcct agactctagg 60  
aactatccga gctccactcc ccacaacata ctcaaaggaa cggagagaa cgggaccccc 120  
ctgcgggggac ccggaactga tctgacagga tggcatctga tgactttgac atagtgtattg 180  
aggccatgct ggaagctccc tataaaaaag aagaggatga gcaacaaagg aaagaagtta 240  
aaaaggatta tcctagcaat accaccagca gcaccagcaa cagtggcaat gagaccagtg 300  
gaagcagcac catcggggag acaagcaatc gtagtcgaga tcgggatcgg tatagacgga 360  
gaaatagtcg gagccgaagt ccaggtcggc agtgtctgtc ccgtagccgt agctggggtc 420  
gtcgacatgg tagtgagtcg cgaagtcggg accatcgtcg tgaggatcgt gtgcattaca 480  
ggagtcctcc acttaccact ggggagccag ttgataatct gagtccctgag gagcgtgatg 540  
cccgcacagt tttctgtatg cagtttagctg cccgaattcg gcctcgagat ctggaggact 600  
ttttctctgc ttagtgcaag gttcgcgatg tacgtatcat ttcagatcgg aactcacgtc 660  
gttctaaggc cattgcctac gtggaattct gtgaaatcca gtctgtgcca ctggccattg 720  
ggctgactgg gcagcgggtg ctgggagtgc ctatcattgt acaggcttca caggcagaga 780  
aaaaccgact ggcagccatg gccacaacc tgcaaaaggg caatggtgga ccaatgcgcc 840  
tctatgtggg ttccctgcac ttcaatatca ctgaagacat gctccggggc atctttgagc 900  
cctttggtaa aattgataat attgtcctga tgaaggactc agatacaggc cgctctaaag 960  
gttatggttt catcacgttc tctgattctg agtgtgcccg gggggccctg gaacagttga 1020  
atgggtttga gcttgctggt cgacctatga gggttggcca tgtgactgag cgactggatg 1080

09629459.072300

```

gtggcacaga catcactttt cctgatgggg accaggagct ggatctggga tcagcaggtg 1140
gacgttttca gctcatggca aaactggcag aaggcgctgg aatccaactg ccaagcactg 1200
ctgctgctgc tgctgccgcc gccgccgcc aggctgctgc cttgcaactg aatggagcag 1260
ttcccttggg ggccctgaat ccagcagctc tgactgctct gagtccagcc ctgaaccttg 1320
cctcccagtg tttccagctc tccagcctct ttacccccca gaccatgtaa atcagtggca 1380
cagtatactg cctccttgtg cctctggatc ctgccacttc acatctactc ttccatggcc 1440
ccattttctc attttgtgga ccaagccatc ctgagggcat ggacattgtc tctgaggaaa 1500
ttggggccac ccttaagata ccaagaaaag ctcttgccca tgggtcccact ggaaatggac 1560
tctgctgagc aaagccacca gttgaagaga acagaatcca cacctgcatt gaatacctgt 1620
ttctccatgt gtatcgtctc tgagattacc ttcttgccct ttccaacacc ttagtgattc 1680
ctcaatttct cccccattgg gaaggccata gggcattaac tgaaggaaact gacctctctc 1740
cttttcctgt accttaacc tttagtctgt caaggaaaac ccttaggacc tctgaatcaa 1800
gaggactgag tttgtgggtg aaccttgaag gtgctcttct tgcataagg gccctgggag 1860
atagcatgga cgtgcattga gaagccagcc tcagacctta gottgaagca gcttgaggcc 1920
agacctactg tagcctcagc atcttgctag gaggcatgga agtgatctat cctgccagga 1980
ggcctcagag tgatctgtcc tgccaggagg tgtgagagtg atctgtcctg tgaggcattt 2040
aggggcttct aggaatttag taaaagggtg agtatgcctt tccagtatct tccatcttcc 2100
tttgatact tgccttctc cccatttctt ccctttggcc cgaggtagga ggatggaggg 2160
aggctgctac tctaccactt cctgtgtgcc tctactgtgg cctcaaccct ggcaattata 2220
gctactccca tcccttacct gggcatgtgt gagcccttct cactggattt tatacccttg 2280
tgtctgtgta cataaatata tatacatata tatatacata aaaactttgt acaaaaggc 2339

```

<210> 11452  
 <211> 406  
 <212> PRT  
 <213> Homo sapiens

<400> 11452

Met	Ala	Ser	Asp	Asp	Phe	Asp	Ile	Val	Ile	Glu	Ala	Met	Leu	Glu	Ala
1				5				10						15	
Pro	Tyr	Lys	Lys	Glu	Glu	Asp	Glu	Gln	Gln	Arg	Lys	Glu	Val	Lys	Lys
			20					25						30	
Asp	Tyr	Pro	Ser	Asn	Thr	Thr	Ser	Ser	Thr	Ser	Asn	Ser	Gly	Asn	Glu
			35				40						45		
Thr	Ser	Gly	Ser	Ser	Thr	Ile	Gly	Glu	Thr	Ser	Asn	Arg	Ser	Arg	Asp
			50			55					60				
Arg	Asp	Arg	Tyr	Arg	Arg	Arg	Asn	Ser	Arg	Ser	Arg	Ser	Pro	Gly	Arg
					70					75				80	
Gln	Cys	Arg	His	Arg	Ser	Arg	Ser	Trp	Asp	Arg	Arg	His	Gly	Ser	Glu
				85					90					95	
Ser	Arg	Ser	Arg	Asp	His	Arg	Arg	Glu	Asp	Arg	Val	His	Tyr	Arg	Ser
				100				105					110		
Pro	Pro	Leu	Thr	Thr	Gly	Glu	Pro	Val	Asp	Asn	Leu	Ser	Pro	Glu	Glu
			115				120					125			
Arg	Asp	Ala	Arg	Thr	Val	Phe	Cys	Met	Gln	Leu	Ala	Ala	Arg	Ile	Arg
			130			135					140				
Pro	Arg	Asp	Leu	Glu	Asp	Phe	Phe	Ser	Ala	Val	Gly	Lys	Val	Arg	Asp

09629469.07300

-4929/13211-

145		150		155		160									
Val	Arg	Ile	Ile	Ser	Asp	Arg	Asn	Ser	Arg	Arg	Ser	Lys	Gly	Ile	Ala
				165					170					175	
Tyr	Val	Glu	Phe	Cys	Glu	Ile	Gln	Ser	Val	Pro	Leu	Ala	Ile	Gly	Leu
			180					185					190		
Thr	Gly	Gln	Arg	Leu	Leu	Gly	Val	Pro	Ile	Ile	Val	Gln	Ala	Ser	Gln
		195					200					205			
Ala	Glu	Lys	Asn	Arg	Leu	Ala	Ala	Met	Ala	Asn	Asn	Leu	Gln	Lys	Gly
	210					215				220					
Asn	Gly	Gly	Pro	Met	Arg	Leu	Tyr	Val	Gly	Ser	Leu	His	Phe	Asn	Ile
225					230					235				240	
Thr	Glu	Asp	Met	Leu	Arg	Gly	Ile	Phe	Glu	Pro	Phe	Gly	Lys	Ile	Asp
			245						250					255	
Asn	Ile	Val	Leu	Met	Lys	Asp	Ser	Asp	Thr	Gly	Arg	Ser	Lys	Gly	Tyr
		260						265					270		
Gly	Phe	Ile	Thr	Phe	Ser	Asp	Ser	Glu	Cys	Ala	Arg	Arg	Ala	Leu	Glu
	275					280						285			
Gln	Leu	Asn	Gly	Phe	Glu	Leu	Ala	Gly	Arg	Pro	Met	Arg	Val	Gly	His
	290				295					300					
Val	Thr	Glu	Arg	Leu	Asp	Gly	Gly	Thr	Asp	Ile	Thr	Phe	Pro	Asp	Gly
305					310					315				320	
Asp	Gln	Glu	Leu	Asp	Leu	Gly	Ser	Ala	Gly	Gly	Arg	Phe	Gln	Leu	Met
			325					330					335		
Ala	Lys	Leu	Ala	Glu	Gly	Ala	Gly	Ile	Gln	Leu	Pro	Ser	Thr	Ala	Ala
		340				345							350		
Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Gln	Ala	Ala	Ala	Leu	Gln	Leu	Asn
	355					360						365			
Gly	Ala	Val	Pro	Leu	Gly	Ala	Leu	Asn	Pro	Ala	Ala	Leu	Thr	Ala	Leu
	370				375					380					
Ser	Pro	Ala	Leu	Asn	Leu	Ala	Ser	Gln	Cys	Phe	Gln	Leu	Ser	Ser	Leu
385				390					395						400
Phe	Thr	Pro	Gln	Thr	Met										
				405											

<210> 11453  
 <211> 3071  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (68).. (889)

<400> 11453  
 atttttttgga ttgtactgca ttgtcaagag accttatacct gatcctgaag acgagattcc 60  
 agatgagatg atccagtgcg tagtctgtga agactgggttc catggaaggc atcttggtgc 120  
 cactccccct gagagtgggg attttcagga gatggtatgc caggcoctgca tgaaacgttg 180

09629459-072300



003270.69462960

ttcttttttg	tgggcttatg	ctgcacaatt	ggcagtaacc	aaaatatcca	ctgaggatga	240
tggattggtg	cggaacattg	atggaatagg	tgatcaggaa	gttatcaaac	ctgaaaatgg	300
agagcatcaa	gatagtaccc	tcaaagagga	tgttccagaa	cagggaaaagg	atgatgtccg	360
ggaggttaaa	gtagagcaga	acagtgaacc	atgtgcocggc	tctagtctctg	aatctgatct	420
ccagacagtg	tttaagaatg	aaagcctcaa	cgcagaatca	aaatctggct	gcaaacttca	480
ggagcttaaa	gctaagcagc	ttataaagaa	agacactgcc	acctattggc	ccctgaactg	540
gcgtagcaag	ttgtgtacct	gccaagactg	tatgaaaatg	tatggagatc	tagatgtctt	600
attcctgaca	gatgaatacg	acacagttct	ggcttatgaa	aacaaaggga	agattgcccc	660
ggccactgac	aggagcgatc	ccctaattgga	taccttagc	agcatgaata	gagtccagca	720
agtggaaactc	atttgtgaat	acaatgattt	gaagactgaa	cttaaagact	atctcaagag	780
atttgctgat	gaaggcacgg	ttgttaagag	agaggacatt	cagcagttct	ttgaagagtt	840
tcagtcaaaa	aagagaagaa	gagtggatgg	gatgcagtat	tactgcagct	agagtggagt	900
atgaagcttt	ctcattcaag	ccaatgaaaa	tgcgcttccc	attcttggaa	taaaagaggt	960
gtggttcaca	tttggcccc	tttccgtcct	cctctgtttg	gagaggcctc	gcgctccctt	1020
cattctcttt	agctgcagta	gccaccgtgt	ggatgctgac	ttcacagcca	gcgtcctctg	1080
tgactcagct	gatgcagctc	attccacaga	cttcgccagt	gtactcctac	tccagtgcac	1140
ccagggttat	ttgcatagtt	tttaagtttg	atthttgttt	gagaaagcaa	attggtgtct	1200
tgtttaaatga	tctgttattt	cactcccaga	tgtgtgtgtt	ttgccacaga	gctgttgccct	1260
tccagaacct	cctccgcagg	catcacggaa	ggctctcttc	ccgtcaccta	gaacctctac	1320
aggtcccctc	gcccctatga	tcgtggtgcc	ttgggtcaaa	gcttcctcaa	gcctgggtctg	1380
ctccttcttt	cagtcacctg	ttttctgagg	tttgggtcata	gcttagaaaag	gatcttgggg	1440
cttgttttct	ctaggcccaa	cctccagagt	agccaggact	gatggttttc	tggtctggat	1500
gtctgtcaca	ggcggagaga	ttaacagatg	acagggttga	ggaagcaagc	ctttgttatg	1560
aattttacta	atacagttca	agtgaatttt	tcgttcatga	ttctattggc	actagaatta	1620
gaatttcagt	actgtagtgc	tcacagggtc	tcctggagaa	catttgcccg	tatactagtc	1680
ccttctctgc	tgccatagaa	acagaccggg	tctcacccct	gtgaaatctt	ggtggtttac	1740
gaagtccctc	ggatttcttg	atattatcag	ggatattcat	aagcatatat	caaaaatgga	1800
cctattttga	tattctgtta	tgaaaatgtt	attagaacct	caataaatta	ttatthttcc	1860
cccttgaatc	tgctaaagaa	aacagatcct	gacttagctt	acttgaaata	agcaggggcag	1920
ggagccctgt	tttggaagag	acagactgtg	gaagagatta	caaacaaggc	ccgaggctgc	1980
acgaatgatg	agttttgtgt	atataatgtt	aatgtccacc	gccacttccc	taacgactat	2040
gagatctttt	ttttgaagat	cctcatggaa	ggttgtacag	agccccacat	ttgaggggaa	2100
gtccttttcag	ttgatatgag	atctctttta	cacccctcag	tctatgtagg	aaatgccttg	2160
tgatacatag	agaacctca	gcttctctct	gcctctggag	gaccaaggtc	tttcttgaca	2220
gtcggagaca	caccttgatg	tatgttaata	aaagcatttc	aggctgtggg	gccaccatgt	2280
atattaatac	tccttatgtg	tccagcatct	gtgtattcat	tcgagtgcc	aatccctgga	2340
tgagatgaac	taggccttat	aaaaagtcaa	agcctcaaag	aaatggcaca	accatgttct	2400
tcggcactca	ggctccta	tgcagatcct	cacgaagggt	ggtatgtgga	gctggaaggt	2460
cttgtggcca	caggacatgc	tgggtgagccc	tgagctggcc	ttgtgcagag	ggctccgttc	2520
aaaggctcgg	ggtgtctttg	aggttgttta	tcaagctggg	gaactcttcc	aagtctgaca	2580
atgttttcgaa	ccctttttgc	aaggttgcac	tattagtata	ccatcatgtc	cggaaaactt	2640
ttaatcttct	caaatatctg	atgtaactac	cagaaagtcc	cttacttcc	atgaccaatc	2700
aggaccaagt	cttggaggtg	atgtgttaca	ttacgtgcag	cacaatagta	ccgatcagtt	2760
aactcagcgc	tgaagggtt	gttttatgaa	aggtaactat	ccttctttca	cattaactgg	2820
aaacctcttt	ttttacctgt	tgttcacaa	tagttttctt	attgactgta	ttggactgtc	2880
tcttcttgta	gagactgatt	ttggccaaca	tattaatgca	tgttttatgc	aaaacacaaa	2940
tatgatatta	gttgctttta	aggagttctg	gcattgtatg	tgcatthttg	tagaaattgt	3000
tactggactt	ataattacat	acttaactct	gatcagggtt	ctgtaaaatt	taaataaaaac	3060

caatacaaaa t

3071

<210> 11454  
<211> 274  
<212> PRT  
<213> Homo sapiens

<400> 11454

```

Met Ile Gln Cys Val Val Cys Glu Asp Trp Phe His Gly Arg His Leu
 1             5             10             15
Gly Ala Thr Pro Pro Glu Ser Gly Asp Phe Gln Glu Met Val Cys Gln
             20             25             30
Ala Cys Met Lys Arg Cys Ser Phe Leu Trp Ala Tyr Ala Ala Gln Leu
             35             40             45
Ala Val Thr Lys Ile Ser Thr Glu Asp Asp Gly Leu Val Arg Asn Ile
             50             55             60
Asp Gly Ile Gly Asp Gln Glu Val Ile Lys Pro Glu Asn Gly Glu His
             65             70             75             80
Gln Asp Ser Thr Leu Lys Glu Asp Val Pro Glu Gln Gly Lys Asp Asp
             85             90             95
Val Arg Glu Val Lys Val Glu Gln Asn Ser Glu Pro Cys Ala Gly Ser
             100            105            110
Ser Ser Glu Ser Asp Leu Gln Thr Val Phe Lys Asn Glu Ser Leu Asn
             115            120            125
Ala Glu Ser Lys Ser Gly Cys Lys Leu Gln Glu Leu Lys Ala Lys Gln
             130            135            140
Leu Ile Lys Lys Asp Thr Ala Thr Tyr Trp Pro Leu Asn Trp Arg Ser
             145            150            155            160
Lys Leu Cys Thr Cys Gln Asp Cys Met Lys Met Tyr Gly Asp Leu Asp
             165            170            175
Val Leu Phe Leu Thr Asp Glu Tyr Asp Thr Val Leu Ala Tyr Glu Asn
             180            185            190
Lys Gly Lys Ile Ala Gln Ala Thr Asp Arg Ser Asp Pro Leu Met Asp
             195            200            205
Thr Leu Ser Ser Met Asn Arg Val Gln Gln Val Glu Leu Ile Cys Glu
             210            215            220
Tyr Asn Asp Leu Lys Thr Glu Leu Lys Asp Tyr Leu Lys Arg Phe Ala
             225            230            235            240
Asp Glu Gly Thr Val Val Lys Arg Glu Asp Ile Gln Gln Phe Phe Glu
             245            250            255
Glu Phe Gln Ser Lys Lys Arg Arg Arg Val Asp Gly Met Gln Tyr Tyr
             260            265            270
Cys Ser

```

<210> 11455

09629469.072800

<211> 1429  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (184).. (591)

<400> 11455  
tttcatcact atggcttagc gtctccaata tacacacatt ttacttcacc cattagaaga 60  
tacgcagatg tcattgttca tcggcttttg gctgtggcta ttggggctga ctgtacttat 120  
ccagagttga cagacaaaca caagcttgca gatataatgta aaaatctaaa tttccggcac 180  
aaaatggctc aatatgcccc acgtgcatca gtggcttttc ataccagtt attcttcaaa 240  
agcaaaggaa tagtaagtga agaagcctat attttatttg taagaaagaa tgccattgtg 300  
gtattaattc caaagtatgg tttagaaggg acagtctttt ttgaagaaaa ggacaaacca 360  
aaccacagc ttatttatga tgatgagata cctcactta aaatagaaga tacagtgttc 420  
catgtatttg ataaagttaa agtgaataatc atgttagact catctaattc tcaacatcag 480  
aagatccgaa tgtccctggg agaaccacag ataccaggaa taagcattcc tactgatact 540  
tcaaacatgg acctaatgg accaaagaaa aagaagatga agcttggaat atagctatat 600  
tcaacaaaaa tcttcaaaga ctggtttctt ttttaaaaga aaaaacttga aagaacactt 660  
ctaagcctaa gtgtgtgata cagtttggtt cttttaagta cattttgata atttcagaca 720  
tctgcatttt tattgaacag ttgactgtat ctgacccatc atactactat acttctgggt 780  
tgaacagaat tatttatgca gaataattca attgaatatc catcacttaa atacagtgc 840  
aggacagcaa cttcagggat ctgtaaagat catttaaatg gagtgcctat ctcataggag 900  
agcagattaa ttttgcgtaa gtactttgat tattcaatat ttgtaagaaa aaactttcat 960  
tttctacag agggaaatag aacaatttta gaagcaagga acaatctctt ttctaagtct 1020  
tggaagctgt cagtgttgag gatgtaattc cctttgccat ctttaattca cctaacttac 1080  
actaggtgtt ctcttactgt ctttaaaagc ttctgtatt ttattagtgg tccttgaaaa 1140  
actgtgaatg tttgggattt ggtagaaagg caaaaagtag gatattttga cctgactgga 1200  
aagatgggtg tgtttttatt gccaggtaat aagtgtgac attgttgaac ttcagctcca 1260  
gtgtctctcc agaataagac attggcattc aaatgtctat atcttggtac taaaagtaa 1320  
aaaacagata attagtggct tttaaattgt agttatatca gtgtatatac acgaggggaa 1380  
ctgtataaag acatactaaa gggaacagat taaaataagt attattaat 1429

<210> 11456  
<211> 136  
<212> PRT  
<213> Homo sapiens

<400> 11456  
Met Ala Gln Tyr Ala Gln Arg Ala Ser Val Ala Phe His Thr Gln Leu  
1 5 10 15  
Phe Phe Lys Ser Lys Gly Ile Val Ser Glu Glu Ala Tyr Ile Leu Phe  
20 25 30  
Val Arg Lys Asn Ala Ile Val Val Leu Ile Pro Lys Tyr Gly Leu Glu  
35 40 45  
Gly Thr Val Phe Phe Glu Glu Lys Asp Lys Pro Asn Pro Gln Leu Ile

0032/0" 69462960

50	55	60
Tyr Asp Asp Glu Ile Pro Ser Leu Lys Ile Glu Asp Thr Val Phe His		
65	70	75
Val Phe Asp Lys Val Lys Val Lys Ile Met Leu Asp Ser Ser Asn Leu		
	85	90
Gln His Gln Lys Ile Arg Met Ser Leu Val Glu Pro Gln Ile Pro Gly		
	100	105
Ile Ser Ile Pro Thr Asp Thr Ser Asn Met Asp Leu Asn Gly Pro Lys		
	115	120
Lys Lys Lys Met Lys Leu Gly Lys		125
130	135	

<210> 11457  
 <211> 1252  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (424).. (876)

<400> 11457

atatatttgat aatggcacag cacttgtggt ccagtgggac catgtacatc tccaggataa	60
ttataacctg ggaagcttca cattccaggc aaccctgctc atggatggac gaatcatctt	120
tggatacaaa gaaattcctg tcttgggtcac acagataagt tcaaccaatc atccagttaa	180
agtcggactg tccgatgcat ttgtcgttgt ccacaggatc caacaaattc ccaatgttcg	240
aagaagaaca atttatgaat accaccgagt agagctacaa atgtcaaaaa ttaccaacat	300
ttcggctgtg gagatgacct cattaccac atgcctccag tttaacagat gtggcccctg	360
tgtatcttcc cagattggct tcaactgcag ttgggtgtagt aaacttcaaa gtcaaaaagag	420
aagatgtgtg agaatacaga accagtggaa acttcttctc gaaccaccac aacctagga	480
gogacaacca cccagttcag ggtcctaact accaccagaa gagcagtgac ttctcagttt	540
cccaccagcc tccctacaga agatgatacc aagatagcac tacatctaaa agataatgga	600
gcttctacag atgacagtgc agctgagaag aaagggggaa cctccacgc tggcctcatc	660
gttggaatcc tcatcctggt cctcattgta gccacagcca ttcttgtgac agtctatatg	720
tatcaccacc caacatcagc agccagcatc ttctttattg agagacgccc aagcagatgg	780
cctgcgatga agtttagaag aggctctgga catcctgcct atgctgaagt tgaaccagtt	840
ggagagaaaag aaggctttat tgtatcagag cagtgtctaaa atttctagga cagaacaaca	900
ccagtactgg ttacaggtg ttaagactaa aattttgcct atacctttaa gacaaacaaa	960
caaacacaca cacaaacaag ctctaagctg ctgtagcctg aagaagacaa gatttctgga	1020
caagctcagc ccaggaaaca aagggtaaac aaaaaactaa aacttataca agataaccatt	1080
tacactgaac atagaattcc ctagtggaaat gtcacttata gttcactcgg aacatctccc	1140
gtggacttat ctgaagtatg acaagattat aatgcttttg gcttaggtgc aggggttcaa	1200
agggatcaga aaaaaaaaaat cataataaag ctttagttca tgagggatcg ac	1252

<210> 11458  
 <211> 151

009220.69462960

<212> PRT

<213> Homo sapiens

<400> 11458

Met Cys Glu Asn Thr Glu Pro Val Glu Thr Ser Ser Arg Thr Thr Thr  
1 5 10 15  
Thr Ile Gly Ala Thr Thr Thr Gln Phe Arg Val Leu Thr Thr Thr Arg  
20 25 30  
Arg Ala Val Thr Ser Gln Phe Pro Thr Ser Leu Pro Thr Glu Asp Asp  
35 40 45  
Thr Lys Ile Ala Leu His Leu Lys Asp Asn Gly Ala Ser Thr Asp Asp  
50 55 60  
Ser Ala Ala Glu Lys Lys Gly Gly Thr Leu His Ala Gly Leu Ile Val  
65 70 75 80  
Gly Ile Leu Ile Leu Val Leu Ile Val Ala Thr Ala Ile Leu Val Thr  
85 90 95  
Val Tyr Met Tyr His His Pro Thr Ser Ala Ala Ser Ile Phe Phe Ile  
100 105 110  
Glu Arg Arg Pro Ser Arg Trp Pro Ala Met Lys Phe Arg Arg Gly Ser  
115 120 125  
Gly His Pro Ala Tyr Ala Glu Val Glu Pro Val Gly Glu Lys Glu Gly  
130 135 140  
Phe Ile Val Ser Glu Gln Cys  
145 150

<210> 11459

<211> 2901

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (220).. (2535)

<400> 11459

gogatctctg cggggcaaga tggcggcgcc cagacaggcc tggagcacgg atgaataaga 60  
gggtaccccc acacggagac actgctggaa tcagccacaa gggctcctgga gtgccctcgg 120  
ctgatataga ctatagttcg agagttcttg cccaccagtt ggtctcctgt gggggcaggg 180  
cctaccccta gtctatacaa agtaccctgt gctactgcca tgaaactact tcgtgtcctg 240  
gcctcagctg ggaggaatat tgctgcccggt ctgttagagca gctttgatct ccggagccgc 300  
ctgtgccgca tcatagctga ggctcccaaa gaactggcct tgccccaga ggaagctgag 360  
atgctgagca ccgaggccct ccgtctgttg gctgtggctg cctcctatgg ccagggcggg 420  
tacctttaca gggagctcta cccagtgtg atgcgggcct tgcagggtgg gccgcgggag 480  
ctcagcacc accacctca acccctgtcc atgcagcgga tagcctcact gctcactctc 540  
ctcaccagc taaccctggc agccggcagt acccctgtg aaaccatcag tgattctgct 600  
gaggccagc tctcgccac cccttcctta gtcgcttgga cacagggtgc tgggctccag 660  
cctcttggtg agccgtgtct aaggcagacc ttgaagttgc tgtccagacc tgagatgtgg 720

009220.69462960

0032/0"69462960

```

agagccgtgg gccagtgcc cgttgccctgc ctgttggttc tgggagccta ctaccaggcc 780
tggagccagc aaccaagctc atgcccgagg gattggctcc aggacatgga gcgcctgtca 840
gaggagctgc tgctgccact gctgagtcag cccacactgg gcagcctgtg ggattccctt 900
aggcactgct cctttctctg caaccgcgtg tctgtgtgca cagcccttga agctcccccc 960
agcctcgtgt cactgggctg ctcggggggc tggccccgtc tcagtctggc tggctcagcc 1020
tcacccttcc cattcctcac tgcctcctc tctcttctta ataccctggc ccagatccac 1080
aaggggctgt gtggccagct ggctgccata ttggctgccc cgggactcca gaattacttc 1140
ctccagtggt tggctcctgg ggctgcccc cacctcacac ctttctctgc atgggcccctg 1200
cgccatgagt accacctgca gtacctggca ctgcctctgg ccagaaaagc ggagcgcgtg 1260
cagccactgc cagccaccca tgctgccctc tatcatggta tggccttggc cctgctgagc 1320
cggctgctgc ccggaagtga gtacctcacc catgagctgc tgctgagctg tgtattccgg 1380
ctggagttcc tcccggaaag aacatcaggg ggtccagagg cagccgactt ctctgaccag 1440
ctgtcgttag gaagcagcag ggtccctcgg tgtgggcaag ggactctgct ggctcaggcc 1500
tgccaggacc tcccagcat ccgcaactgc tactgactc attgctcggc agcccgagcc 1560
agtctgctgg cctcccaggc tctgcaccga ggggagctac agcagatccc aacctgcta 1620
ctgcccattgc ctacggagcc gctgctgccc accgactggc ccttctctgc actgattcgc 1680
ctctaccacc gggcttcaga cccccctcg ggactctctc ccacagacac catgggcaca 1740
gccatgcggg tctgcagtg ggtgctagtt ttggagagct ggccgccccca ggctctcttg 1800
gctgtgcccc ctgctgccc cctggcacgg ctcatgtgtg tgttctctgg ggacagttag 1860
ctgttccggg agtcccagc acagcatctg gtggcagccc tctctgcccc gctctgtcag 1920
cctcaagtct tgccaaacct caacctggac tgccgactcc ctggcctgac gtctttccct 1980
gacctctatg ccaacttctt ggatcatttt gaggctgtct cttttgggga ccacctctt 2040
ggggccctgg tctcctgccc cctgcagcgt cggttcagtg tcaccttgcg ccttgccctc 2100
tttggggaac acgtgggagc cttgcgagct ctgagcctgc ctctgaccca gttgcctgtg 2160
tccctggagt gttacacagt gcctcctgaa gacaacctgg cctccttca gctctacttc 2220
cggaccctgg ttactggtgc gctccgccc cgttgggtgc ccgtgctcta tgctgtggct 2280
gtggctcatg tcaatagctt catcttctct caggacccac agagctcaga tgaggtcaaa 2340
gctgcccgca ggagtatgct gcagaaaaca tggctgctgg cagatgaggg tctccggcag 2400
cacctcctgc actataagct tcccaattcc acgctcccag agggctttga gctctattct 2460
cagttgcccc ctctgcgtca gcaactaccc cagagactga cttcaacagt gctccaaaat 2520
gggggtatcag agacctagga tagttgatat agatggaaag atgggtacgt tgtcctgtat 2580
ccagccttcc aacagatgct tggccagacg aagaacattg tgtcctaatt gtaggcaggg 2640
gaccaaggag cagaaggctt gccttctctg gaggcaggtt tttgagctgt ttagagcag 2700
tgagccctac cattacatcc tgatatctgg ggcttctgaa ggtctgtgct gggagtgaag 2760
agtggcttag ctatttacc gctctttggg gacagggcaa actaaatgca tcccttctta 2820
cctaactccc aacctctgcc ctgggctgag gcatatgaat gctatagttg tgcattaaaa 2880
taaagtgttt ttatctcctg g

```

<210> 11460  
 <211> 772  
 <212> PRT  
 <213> Homo sapiens

<400> 11460  
 Met Lys Leu Leu Arg Val Leu Ala Ser Ala Gly Arg Asn Ile Ala Ala  
 1 5 10 15  
 Arg Leu Leu Ser Ser Phe Asp Leu Arg Ser Arg Leu Cys Arg Ile Ile



-4937/13211-

				405					410				415			
Arg	Cys	Gly	Gln	Gly	Thr	Leu	Leu	Ala	Gln	Ala	Cys	Gln	Asp	Leu	Pro	
			420					425					430			
Ser	Ile	Arg	Asn	Cys	Tyr	Leu	Thr	His	Cys	Ser	Pro	Ala	Arg	Ala	Ser	
		435					440					445				
Leu	Leu	Ala	Ser	Gln	Ala	Leu	His	Arg	Gly	Glu	Leu	Gln	Arg	Val	Pro	
	450					455					460					
Thr	Leu	Leu	Leu	Pro	Met	Pro	Thr	Glu	Pro	Leu	Leu	Pro	Thr	Asp	Trp	
465					470					475					480	
Pro	Phe	Leu	Pro	Leu	Ile	Arg	Leu	Tyr	His	Arg	Ala	Ser	Asp	Thr	Pro	
			485					490					495			
Ser	Gly	Leu	Ser	Pro	Thr	Asp	Thr	Met	Gly	Thr	Ala	Met	Arg	Val	Leu	
		500					505					510				
Gln	Trp	Val	Leu	Val	Leu	Glu	Ser	Trp	Arg	Pro	Gln	Ala	Leu	Trp	Ala	
	515					520					525					
Val	Pro	Pro	Ala	Ala	Arg	Leu	Ala	Arg	Leu	Met	Cys	Val	Phe	Leu	Val	
	530				535					540						
Asp	Ser	Glu	Leu	Phe	Arg	Glu	Ser	Pro	Val	Gln	His	Leu	Val	Ala	Ala	
545				550					555						560	
Leu	Leu	Ala	Gln	Leu	Cys	Gln	Pro	Gln	Val	Leu	Pro	Asn	Leu	Asn	Leu	
			565				570					575				
Asp	Cys	Arg	Leu	Pro	Gly	Leu	Thr	Ser	Phe	Pro	Asp	Leu	Tyr	Ala	Asn	
		580					585					590				
Phe	Leu	Asp	His	Phe	Glu	Ala	Val	Ser	Phe	Gly	Asp	His	Leu	Phe	Gly	
	595					600					605					
Ala	Leu	Val	Leu	Leu	Pro	Leu	Gln	Arg	Arg	Phe	Ser	Val	Thr	Leu	Arg	
	610				615					620						
Leu	Ala	Leu	Phe	Gly	Glu	His	Val	Gly	Ala	Leu	Arg	Ala	Leu	Ser	Leu	
625				630					635						640	
Pro	Leu	Thr	Gln	Leu	Pro	Val	Ser	Leu	Glu	Cys	Tyr	Thr	Val	Pro	Pro	
			645					650					655			
Glu	Asp	Asn	Leu	Ala	Leu	Leu	Gln	Leu	Tyr	Phe	Arg	Thr	Leu	Val	Thr	
		660					665						670			
Gly	Ala	Leu	Arg	Pro	Arg	Trp	Cys	Pro	Val	Leu	Tyr	Ala	Val	Ala	Val	
	675				680						685					
Ala	His	Val	Asn	Ser	Phe	Ile	Phe	Ser	Gln	Asp	Pro	Gln	Ser	Ser	Asp	
	690				695					700						
Glu	Val	Lys	Ala	Ala	Arg	Arg	Ser	Met	Leu	Gln	Lys	Thr	Trp	Leu	Leu	
705				710					715						720	
Ala	Asp	Glu	Gly	Leu	Arg	Gln	His	Leu	Leu	His	Tyr	Lys	Leu	Pro	Asn	
			725					730					735			
Ser	Thr	Leu	Pro	Glu	Gly	Phe	Glu	Leu	Tyr	Ser	Gln	Leu	Pro	Pro	Leu	
		740					745						750			
Arg	Gln	His	Tyr	Leu	Gln	Arg	Leu	Thr	Ser	Thr	Val	Leu	Gln	Asn	Gly	
	755					760						765				
Val	Ser	Glu	Thr													
	770															

09629469-072800



<210> 11461  
<211> 1202  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (26).. (760)

<400> 11461  
cagccggtcc aggcctcttg cgaacatggc gcttgtcccc tgccagggtgc tgcggatggc 60  
aatcctgctg tcttactgct ctatcctgtg taactacaag gccatcgaaa tgccttcaca 120  
ccagacctac ggagggagct ggaaattcct gacgttcatt gatctgggta tccaggctgt 180  
cttttttggc atctgtgtgc tgactgatct ttccagtctt ctgactcgag gaagtgggaa 240  
ccaggagcaa gagaggcagc tcaagaagct catctctctc cgggactgga tgtagctgt 300  
gttggccttt cctgttgggg tttttgttgt agcagtgttc tggatcattt atgcctatga 360  
cagagagatg atataccga agctgctgga taattttatc ccagggtggc tgaatcacgg 420  
aatgcacacg acggttctgc cttttatatt aatcgagatg aggacatcgc accatcagta 480  
tcccagcagg agcagcggac ttaccgccat atgtaccttc totgttggct atatattatg 540  
ggtgtgctgg gtgcatcatg taactggcat gtgggtgtac cttttcctgg aacactttgg 600  
cccaggagcc agaatcatct tctttgggtc tacaaccatc ttaatgaact tctgtacct 660  
gctgggagaa gttctgaaca actatatctg ggatacacag aaaaagcctc catcttggca 720  
agatatgaaa attaagttaa tgtacctagg accatctagt tagttccaca aagacagatg 780  
ttttgtgcca agtaagtatc atcctcattt acaagagggg tcacaaactg ctggcctccc 840  
ccaacttcta cctatcaagt tctgttaggc ctacatcgtg gaatttttgt ttttgaatca 900  
gtattttaaa attgggtgat tttggctggg cgcagtggct catgcctgta atcccggcac 960  
tttgggagac tgaggcaggt ggatcacgag gtcaagagat ggagaccatc ctggccaaca 1020  
tggtgaaatc ccatctctac taaaaatata aaaattagcc aggcattggtg gcgtgtgcct 1080  
gtagtccag gtactcggga ggctgaggca ggagaactgc ttgaaccag gaggcagagg 1140  
ttgcagtgag ctgagatcat gccactgcac cccagcctgg caacagaaca agactccatc 1200  
tc 1202

<210> 11462  
<211> 245  
<212> PRT  
<213> Homo sapiens

<400> 11462  
Met Ala Leu Val Pro Cys Gln Val Leu Arg Met Ala Ile Leu Leu Ser  
1 5 10 15  
Tyr Cys Ser Ile Leu Cys Asn Tyr Lys Ala Ile Glu Met Pro Ser His  
20 25 30  
Gln Thr Tyr Gly Gly Ser Trp Lys Phe Leu Thr Phe Ile Asp Leu Val  
35 40 45  
Ile Gln Ala Val Phe Phe Gly Ile Cys Val Leu Thr Asp Leu Ser Ser  
50 55 60

003220-69462960

Leu Leu Thr Arg Gly Ser Gly Asn Gln Glu Gln Glu Arg Gln Leu Lys  
 65 70 75 80  
 Lys Leu Ile Ser Leu Arg Asp Trp Met Leu Ala Val Leu Ala Phe Pro  
 85 90 95  
 Val Gly Val Phe Val Val Ala Val Phe Trp Ile Ile Tyr Ala Tyr Asp  
 100 105 110  
 Arg Glu Met Ile Tyr Pro Lys Leu Leu Asp Asn Phe Ile Pro Gly Trp  
 115 120 125  
 Leu Asn His Gly Met His Thr Thr Val Leu Pro Phe Ile Leu Ile Glu  
 130 135 140  
 Met Arg Thr Ser His His Gln Tyr Pro Ser Arg Ser Ser Gly Leu Thr  
 145 150 155 160  
 Ala Ile Cys Thr Phe Ser Val Gly Tyr Ile Leu Trp Val Cys Trp Val  
 165 170 175  
 His His Val Thr Gly Met Trp Val Tyr Pro Phe Leu Glu His Phe Gly  
 180 185 190  
 Pro Gly Ala Arg Ile Ile Phe Phe Gly Ser Thr Thr Ile Leu Met Asn  
 195 200 205  
 Phe Leu Tyr Leu Leu Gly Glu Val Leu Asn Asn Tyr Ile Trp Asp Thr  
 210 215 220  
 Gln Lys Lys Pro Pro Ser Trp Gln Asp Met Lys Ile Lys Phe Met Tyr  
 225 230 235 240  
 Leu Gly Pro Ser Ser  
 245

<210> 11463  
 <211> 2084  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (5).. (1750)

<400> 11463  
 agcaatggcg gttcccggcg tggggctctt gaccogtttg aacctgtgtg cccggagaag 60  
 aactcgagtc cagcggccta tcgtcaggct tttagattgc ccaggaactg tggccaaaga 120  
 ccttaggaga gacgagcagc cttcagggag cgtggagaca ggctttgaag acaagattcc 180  
 caaaaggaga ttctctgaga tgcaaaatga aagacgagaa caggcacagc ggactgtttt 240  
 aatacattgc ccagagaaaa tcagtgaaaa caagtttctt aaatatattat cccaatttgg 300  
 acctattaat aatcatttct tctatgaaag ctttggtctc tatgctgtcg tagaattttg 360  
 ccaaaaggaa agcataggtt cactgcagaa tgggactcat actccaagca cggccatgga 420  
 gactgcaatt ccattcagat cacgtttctt caatctgaag ttgaaaaacc agacttctga 480  
 acggtcacgc gtacggtcaa gtaatcagtt gccacgttca aacaagcagc tttttgaatt 540  
 actttgttat gcagaaagta tagacgatca gctgaacact ctcttgaagg agttccagct 600  
 aacagaggag aacactaagc tccgatatct caccgtgtct cttattgaag acatggccgc 660  
 cgcgtatttt ccagactgca tagtcagacc ctttggctcc tcagtcaaca cttttgggaa 720

09629469.072800

```

gttaggatgt gatttggaca tgttttttga tctagatgaa accagaaacc tcagcgtca 780
caagatctca ggaaattttc tgatggaatt tcaagtgaaa aatgttcctt cagaaagaat 840
tgcaactcag aagatcctgt ctgtgttagg agagtgcctt gaccactttg gccctggctg 900
tgtgggtgtg caaaaaatat taaatgcccg gtgtccgctc gtgaggttct cacaccaggc 960
ctccggattt cagtgtgatt tgactacgaa caataggatt gccttgacaa gttccgaact 1020
cctttatata tatggtgccc tagactcaag agtgagagcc ttggtgttca gtgtacggtg 1080
ctgggctcga gcacattcac taacaagtag tattcctggt gcatggatta caaatttctc 1140
ccttacaatg atggtcatct tttttctcca gagaagatca cccctattc ttccaacact 1200
agattcctta aaaaccctag cagatgcaga agataaatgt gtaatagaag gcaacaactg 1260
cacatttgtt cgtgacttga gtagaattaa accttcacag aacacagaaa cattagaatt 1320
actactgaag gaattttttg agtatttttg caattttgct ttcgataaaa attccataaa 1380
tattcgacag ggaagggagc aaaacaaacc tgattcttct cctctgtaca ttcagaatcc 1440
atltgaaact tctctcaaca taagcaaaaa tgtaagtcaa agccagctgc aaaaatttgt 1500
agatttggcc cgagaaagtg cctggatttt acaacaggaa gatacagatc gaccttccat 1560
atcaagtaat cggccctggg ggctgggtatc cctatttgct ccatctgctc caaacagaaa 1620
gtcctttacc aagaagaaaa gcaataagtt tgcaattgaa acagtcaaaa acttgctaga 1680
atctttaaaa ggtaacagaa cagaaaaattt cacaaaaacc agtggggaaga gaacaattag 1740
tactcagaca tgatggctgc tacatttgtt aaagaactgg gcttagccta tcaaatggtc 1800
tgtggactta cttggaaaaa ctgatttgaa actttcacag atctcagctt tcatctgatg 1860
tcaactttca tgatcttctc attggccccc ttaacctggt ctgaagttct gggatgtttt 1920
cagtttgatc agtctgatac tcagtggcac tttattaaaa catcagctgt ggagtgtggc 1980
ggtgcacacc tgtagtccca gctgctcagg aggctgaggc aggaggatct cttgagccca 2040
ggattttgaa tccatcgtgg acaacatagc aagattccat ctct 2084

```

<210> 11464  
 <211> 582  
 <212> PRT  
 <213> Homo sapiens

<400> 11464

Met	Ala	Val	Pro	Gly	Val	Gly	Leu	Leu	Thr	Arg	Leu	Asn	Leu	Cys	Ala
1				5					10					15	
Arg	Arg	Arg	Thr	Arg	Val	Gln	Arg	Pro	Ile	Val	Arg	Leu	Leu	Ser	Cys
			20					25						30	
Pro	Gly	Thr	Val	Ala	Lys	Asp	Leu	Arg	Arg	Asp	Glu	Gln	Pro	Ser	Gly
			35				40						45		
Ser	Val	Glu	Thr	Gly	Phe	Glu	Asp	Lys	Ile	Pro	Lys	Arg	Arg	Phe	Ser
	50					55					60				
Glu	Met	Gln	Asn	Glu	Arg	Arg	Glu	Gln	Ala	Gln	Arg	Thr	Val	Leu	Ile
65					70					75					80
His	Cys	Pro	Glu	Lys	Ile	Ser	Glu	Asn	Lys	Phe	Leu	Lys	Tyr	Leu	Ser
				85					90					95	
Gln	Phe	Gly	Pro	Ile	Asn	Asn	His	Phe	Phe	Tyr	Glu	Ser	Phe	Gly	Leu
			100					105					110		
Tyr	Ala	Val	Val	Glu	Phe	Cys	Gln	Lys	Glu	Ser	Ile	Gly	Ser	Leu	Gln
	115						120					125			
Asn	Gly	Thr	His	Thr	Pro	Ser	Thr	Ala	Met	Glu	Thr	Ala	Ile	Pro	Phe

000220.69462960

130						135						140			
Arg	Ser	Arg	Phe	Phe	Asn	Leu	Lys	Leu	Lys	Asn	Gln	Thr	Ser	Glu	Arg
145					150					155					160
Ser	Arg	Val	Arg	Ser	Ser	Asn	Gln	Leu	Pro	Arg	Ser	Asn	Lys	Gln	Leu
				165					170					175	
Phe	Glu	Leu	Leu	Cys	Tyr	Ala	Glu	Ser	Ile	Asp	Asp	Gln	Leu	Asn	Thr
			180					185					190		
Leu	Leu	Lys	Glu	Phe	Gln	Leu	Thr	Glu	Glu	Asn	Thr	Lys	Leu	Arg	Tyr
		195					200					205			
Leu	Thr	Cys	Ser	Leu	Ile	Glu	Asp	Met	Ala	Ala	Ala	Tyr	Phe	Pro	Asp
	210					215					220				
Cys	Ile	Val	Arg	Pro	Phe	Gly	Ser	Ser	Val	Asn	Thr	Phe	Gly	Lys	Leu
225					230					235					240
Gly	Cys	Asp	Leu	Asp	Met	Phe	Leu	Asp	Leu	Asp	Glu	Thr	Arg	Asn	Leu
			245					250					255		
Ser	Ala	His	Lys	Ile	Ser	Gly	Asn	Phe	Leu	Met	Glu	Phe	Gln	Val	Lys
			260				265						270		
Asn	Val	Pro	Ser	Glu	Arg	Ile	Ala	Thr	Gln	Lys	Ile	Leu	Ser	Val	Leu
	275					280						285			
Gly	Glu	Cys	Leu	Asp	His	Phe	Gly	Pro	Gly	Cys	Val	Gly	Val	Gln	Lys
	290					295					300				
Ile	Leu	Asn	Ala	Arg	Cys	Pro	Leu	Val	Arg	Phe	Ser	His	Gln	Ala	Ser
305					310					315					320
Gly	Phe	Gln	Cys	Asp	Leu	Thr	Thr	Asn	Asn	Arg	Ile	Ala	Leu	Thr	Ser
			325					330					335		
Ser	Glu	Leu	Leu	Tyr	Ile	Tyr	Gly	Ala	Leu	Asp	Ser	Arg	Val	Arg	Ala
			340				345						350		
Leu	Val	Phe	Ser	Val	Arg	Cys	Trp	Ala	Arg	Ala	His	Ser	Leu	Thr	Ser
	355					360						365			
Ser	Ile	Pro	Gly	Ala	Trp	Ile	Thr	Asn	Phe	Ser	Leu	Thr	Met	Met	Val
	370				375						380				
Ile	Phe	Phe	Leu	Gln	Arg	Arg	Ser	Pro	Pro	Ile	Leu	Pro	Thr	Leu	Asp
385					390					395					400
Ser	Leu	Lys	Thr	Leu	Ala	Asp	Ala	Glu	Asp	Lys	Cys	Val	Ile	Glu	Gly
			405					410					415		
Asn	Asn	Cys	Thr	Phe	Val	Arg	Asp	Leu	Ser	Arg	Ile	Lys	Pro	Ser	Gln
			420				425					430			
Asn	Thr	Glu	Thr	Leu	Glu	Leu	Leu	Leu	Lys	Glu	Phe	Phe	Glu	Tyr	Phe
	435					440					445				
Gly	Asn	Phe	Ala	Phe	Asp	Lys	Asn	Ser	Ile	Asn	Ile	Arg	Gln	Gly	Arg
	450					455				460					
Glu	Gln	Asn	Lys	Pro	Asp	Ser	Ser	Pro	Leu	Tyr	Ile	Gln	Asn	Pro	Phe
465					470					475					480
Glu	Thr	Ser	Leu	Asn	Ile	Ser	Lys	Asn	Val	Ser	Gln	Ser	Gln	Leu	Gln
			485					490					495		
Lys	Phe	Val	Asp	Leu	Ala	Arg	Glu	Ser	Ala	Trp	Ile	Leu	Gln	Gln	Glu
			500				505					510			
Asp	Thr	Asp	Arg	Pro	Ser	Ile	Ser	Ser	Asn	Arg	Pro	Trp	Gly	Leu	Val

003270 69462960

-4942/13211-

515		520		525											
Ser	Leu	Leu	Leu	Pro	Ser	Ala	Pro	Asn	Arg	Lys	Ser	Phe	Thr	Lys	Lys
530		535		540											
Lys	Ser	Asn	Lys	Phe	Ala	Ile	Glu	Thr	Val	Lys	Asn	Leu	Leu	Glu	Ser
545		550		555		560									
Leu	Lys	Gly	Asn	Arg	Thr	Glu	Asn	Phe	Thr	Lys	Thr	Ser	Gly	Lys	Arg
		565		570		575									
Thr	Ile	Ser	Thr	Gln	Thr										
		580													

<210> 11465  
<211> 2895  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (218).. (595)

<400> 11465  
gtgggccttc atcgtcacca acctggcgag tgtgtatata cgggaaggaa atagacacca 60  
agagctctac agtctgctgg agaggatcaa cccggaccac agcttccctg tcagctcgca 120  
ctgcctccga gcagccgcct tctatgtgog tgggctcttc tccttcttcc agggacgcta 180  
caacgaggcc aagcgatttc tgcgggaaac totgaagatg tccaatgctg aggacctgaa 240  
ccggctcaca gcctgctccc tctgtcttct gggccacatc ttctatgtgc tgggaaacca 300  
cagggagagt aacaacatgg tgggtgcctgc catgcagctc gccagcaaga tcccggacat 360  
gtcggtagag ctgtgggtcgt cagcactgct gagagacctg aataaagcct gtgggaacgc 420  
catggatgcc catgaagccg cccagatgca ccagaacttc tcgcagcagc tgtccagga 480  
ccacattgag gcctgcagcc tccccgaaca caacctcacc acgtggacag acggtccacc 540  
ccccgtgcag ttccaagctc agaatggacc caacaccagc ctggccagcc tctgtgagg 600  
ccttgatggg gccatccagc tccgcagggc ctgcgcgtct cgggcttcca ccagacggc 660  
actcaagcct gccccgagg cgtgcttctt tctgattgt ctotagagct tccaagtctt 720  
gggaatgtgc ggggccagtc cctgcccctc caggaggggt ggtagccgtt cccacctcgc 780  
agcaggaccc ccagtgcaga ggctcacagg tggcacacag gcgctgtctc tccagagcca 840  
tccttcagag tggacctcag tgccagtctt gctcagcat ctgggtcacg tcggccagga 900  
gtagggtgca ggctccagc aggtcctaata cctgtgtgcc agggcaggca gtgccccagg 960  
ggcaccacgc ctgactctcc atcaccagg ccttgatgcc gagcgggagt agagtgtttc 1020  
ctctgctcaa ggcaatttcc agagcccgga tgccagtctc tggcctgaat ttggaggga 1080  
gaagtaatgg ccctagtgtg ggacgaagca cagatccag cacttttccc agctttccct 1140  
ccagcatcag tccctgcagc agctggggcc tctggtcagg aacctcagg gaccaggaa 1200  
ctcagcttcc aaacatctgc accttgaccg gactcgcctt cccgccgtgg ggggtgcagg 1260  
gattgtaaac acgggtgtgc atgtggatgc acacgggtgt gcggtgaaga tctgtggaga 1320  
tggagctggg agctgaggct cctgttgac cagccacctt ccccatctt gtggctgctg 1380  
aggggcagga agcgggggag tgggctcgtc tctaaattt aagatcacct cctcagctag 1440  
cttagagtgc gtggcacggg cccccgcgcc ccgagatctg gagcccaggg actttcttcc 1500  
tggcagatct gtggccttcc ctgctcagcc tcttgggtcc cccactccct ccaccgctc 1560  
accttccctg ctgggtctct ggggcacagt gtgaaacctg caccctagcc aggccccagg 1620

0032/0 59462960

```

gagcctccgc tgggcccaga cagcagcggt tggttttatc cacttttctt ggataatcag 1680
gaggtgcccc agtggtcaca gtgtggcatt ccgagttggg gcgggtggtc ggggtcaagat 1740
agcagcagca ggtgtcaggg ctcaagacac caccocctcc agcttctggg gcccaggagc 1800
ctctccctgc tacagggggt gggggctcctg ctcagcaggg taggtgggtg ttttaggtct 1860
tgtcacccctc actcagtggg actgcctctg ggagctttgg cgtctgtgac taaagggacg 1920
ctggattgct caggtcagct gctcggggct cccaggctgg gtgtgcctta gccacaggca 1980
gggctgtcaa taacccctt cctcactggc caccacctga catcagcacc agtgacaggc 2040
tggtcagagg gcggggctgg tgagggtttg tcctaagagg accaccgcca tctctgggtc 2100
tccaggggga gagcctggcc ctgtcctttg ctaccagggg ctgccccag gcccatgaag 2160
ccaataggag agcgtgtggc actggcccac aaactgtccc tgtcctgtct tcctcccgag 2220
ccatggcctc tgctagctcc acctgaagg agccccccac atcctcccct acatcccaga 2280
gatgccgcca cttgtgtctc cacaatgtgc tcctgcccac ccgggttcgg cactgtccga 2340
cccctgcaca ccactcatgt caccacggcg tgcacatgt tcatcccat ctatttattt 2400
aagcctttct ttgctttagt ggcattttgt atgtagagca gttgaaaaca gaacctcaga 2460
acttaacatc tgcctgatg ttaaagtgtt tttcatgacc accctgttat ctatgtatat 2520
gtaaagttaa ggatgaggtc ttaagtttac aattaaaaac tcagtactca atatttaata 2580
ttctactcga gctttatgga agccaaatca tgtgcatgtg tgtgtgtgcg tgtgtgcaag 2640
ctttgaacct ccttcacag ccgcaccttc tcatgacaca aagcttttga taagtacttt 2700
cctgtgggtc gctcagggcc tcatagcatc tcattcaatt acaagaatag aggccagaca 2760
cgggtggcga tgcctgtagt cccagctaac tgggaggctg aggcaggagg atcacttgag 2820
cccaggagat tgaggctgca gtgagcatga tcgcgacact gcactccagc ctgggtgacg 2880
gtgagacttt gtctc 2895

```

<210> 11466  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<400> 11466

Met	Ser	Asn	Ala	Glu	Asp	Leu	Asn	Arg	Leu	Thr	Ala	Cys	Ser	Leu	Val
1				5					10					15	
Leu	Leu	Gly	His	Ile	Phe	Tyr	Val	Leu	Gly	Asn	His	Arg	Glu	Ser	Asn
		20						25					30		
Asn	Met	Val	Val	Pro	Ala	Met	Gln	Leu	Ala	Ser	Lys	Ile	Pro	Asp	Met
		35					40					45			
Ser	Val	Gln	Leu	Trp	Ser	Ser	Ala	Leu	Leu	Arg	Asp	Leu	Asn	Lys	Ala
	50					55				60					
Cys	Gly	Asn	Ala	Met	Asp	Ala	His	Glu	Ala	Ala	Gln	Met	His	Gln	Asn
65					70				75					80	
Phe	Ser	Gln	Gln	Leu	Leu	Gln	Asp	His	Ile	Glu	Ala	Cys	Ser	Leu	Pro
			85					90						95	
Glu	His	Asn	Leu	Ile	Thr	Trp	Thr	Asp	Gly	Pro	Pro	Pro	Val	Gln	Phe
		100					105						110		
Gln	Ala	Gln	Asn	Gly	Pro	Asn	Thr	Ser	Leu	Ala	Ser	Leu	Leu		
		115					120					125			

0032/0.69462960

<210> 11467  
<211> 2253  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (278).. (1255)

<400> 11467

```
gtcccagccg gagccccagc cggagcccga tccctagccc tgcggccgcg cctccctcgc 60
cgtccccgcc tggagcccg gcccgcgcgc gccagcagg cgcggggcga aggagctgct 120
agaacaatgc tgaggcgggt gaggtgagga gcagcccctc gcggcagccc cgacagagt 180
tctggaacag gtgattggag gagccggaga ccaggcacc tgggcaccc tcccctcgcc 240
tctgccaggc ccgcgcgcgc taaaagggtg gaaaaccatg gcgaccaatt tcagtacat 300
cgtcaagcaa ggctacgtga agatgaagag caggaagctc gggatctacc ggaggtgctg 360
gctggtgttc cggaaatcct ccagcaagg gcccagcgg ctggagaagt atccagatga 420
gaagtcgggt tgcctccggg gctgccccaa ggtgactgag atcagcagcg tcaagtgtgt 480
tacgcggctc cccaaggaga ccaagcggca ggcggtggcc atcatattca ctgatgactc 540
ggcacgtacc ttcacctgcg actcagagct agaggcagag gagtgtgaca agacactatc 600
tgtggagtgt ctgggggtccc gcctcaacga catcagtctg ggagaacctg acctcctggc 660
cccaggggtg cagtgtgaac agacagatcg cttaaatgtc ttctgtctgc cctgccccaa 720
cctggacgtg tatggcgagt gcaagctgca gatcacccac gagaacatct acctctggga 780
catccacaac ccccggtgtga agctcgtctc gtggcccctc tgotcactgc gccgctatgg 840
ccgggatgcc acacgcttta ccttcgaggc tggccggatg tgtgatgctg gggaaggact 900
ctataccttc cagacacaag agggggagca gatttaccag cgcgtccaca gtgccaccct 960
ggccatcgca gagcagcaca agcgggtcct gctggaaatg gagaagaacg tgaggctgct 1020
gaacaagggc acggaacatt actcgtatcc ctgcacaccc acgaccatgc tgcgcgcag 1080
tgccactgg caccacatca ctggttccca gaacatcgcc gaagcctcca gctatgctgg 1140
tgagggtat ggggcagccc aggccagctc ggaacagac ctctcaaca gattcatcct 1200
gctaaagcca aagcccagcc agggggacag cagtgaggcc aagaccccat ccagtgacc 1260
acagtgtgag cgagcaccga tgaactgtgg gggctgcctg ctgccgggct ggctgcagt 1320
taccgtggac agcctcaggg ggctgtcggc caagagcctg gagaaaggga gcaagctgcc 1380
ccctccttgc cccaaggat gaggtgtggc tgaggcaaag ggctggccac accacctgag 1440
catgtgtgag aggttggagc taccgtggga ctatatactg ttaatgattt taatatatat 1500
ggcttatgac atactctgta tcaatgagat cccctcacc tcaccccatc cttccccacc 1560
aatacacaca aattttttaa tcccatgacc aggccacggt caaggctgtt tttgagtatg 1620
agtgcagtcg tatccatcct ccattggcaca gccctcctgc tgccaggacc tgcttgaact 1680
accagggcca caggaggggg ataatcagag cttagaggctg gcaactctgac tgctggcttt 1740
tccaaaacag cccaagggcc ggaacagcag gtggcttctc agttcctctg ggctggagt 1800
gacacaggaa ggatctgcac ttctctgtg ctgcttgcca gccttgagc tggagtttta 1860
agcagagggt acatctggtt gacgcctcag gtgaaaatct ggttttaaaa tgtaacttct 1920
gcacaggctc cttcctgctt ttaggctgg gaagatgccc ctggggtagg ggtgctgatt 1980
acctcagcca tgtggaggaa ggctggagct tgttctgccc ccaggaatag gccaggagg 2040
aaggccgcag caggactgcc gtggggagca cccctgctgc cccctctca ctgaccagg 2100
gtggacaatg cccaagcaga gggagcccc ttgcctgtt tggccaccct ctggccagcc 2160
aaaagcactc tgaaccaag accttccat ttctctctc ccacatggtg ctgaggctcc 2220
ctgctgcaat gcaattaaag caattgattt tct 2253
```

09629469.072300

<210> 11468  
<211> 326  
<212> PRT  
<213> Homo sapiens

<400> 11468

Met	Ala	Thr	Asn	Phe	Ser	Asp	Ile	Val	Lys	Gln	Gly	Tyr	Val	Lys	Met
1				5					10					15	
Lys	Ser	Arg	Lys	Leu	Gly	Ile	Tyr	Arg	Arg	Cys	Trp	Leu	Val	Phe	Arg
			20					25					30		
Lys	Ser	Ser	Ser	Lys	Gly	Pro	Gln	Arg	Leu	Glu	Lys	Tyr	Pro	Asp	Glu
			35				40					45			
Lys	Ser	Val	Cys	Leu	Arg	Gly	Cys	Pro	Lys	Val	Thr	Glu	Ile	Ser	Ser
	50					55					60				
Val	Lys	Cys	Val	Thr	Arg	Leu	Pro	Lys	Glu	Thr	Lys	Arg	Gln	Ala	Val
65					70					75					80
Ala	Ile	Ile	Phe	Thr	Asp	Asp	Ser	Ala	Arg	Thr	Phe	Thr	Cys	Asp	Ser
				85					90					95	
Glu	Leu	Glu	Ala	Glu	Glu	Trp	Tyr	Lys	Thr	Leu	Ser	Val	Glu	Cys	Leu
			100					105					110		
Gly	Ser	Arg	Leu	Asn	Asp	Ile	Ser	Leu	Gly	Glu	Pro	Asp	Leu	Leu	Ala
		115				120						125			
Pro	Gly	Val	Gln	Cys	Glu	Gln	Thr	Asp	Arg	Phe	Asn	Val	Phe	Leu	Leu
						135					140				
Pro	Cys	Pro	Asn	Leu	Asp	Val	Tyr	Gly	Glu	Cys	Lys	Leu	Gln	Ile	Thr
145					150					155					160
His	Glu	Asn	Ile	Tyr	Leu	Trp	Asp	Ile	His	Asn	Pro	Arg	Val	Lys	Leu
				165					170					175	
Val	Ser	Trp	Pro	Leu	Cys	Ser	Leu	Arg	Arg	Tyr	Gly	Arg	Asp	Ala	Thr
			180					185					190		
Arg	Phe	Thr	Phe	Glu	Ala	Gly	Arg	Met	Cys	Asp	Ala	Gly	Glu	Gly	Leu
		195					200					205			
Tyr	Thr	Phe	Gln	Thr	Gln	Glu	Gly	Glu	Gln	Ile	Tyr	Gln	Arg	Val	His
	210					215					220				
Ser	Ala	Thr	Leu	Ala	Ile	Ala	Glu	Gln	His	Lys	Arg	Val	Leu	Leu	Glu
225					230					235					240
Met	Glu	Lys	Asn	Val	Arg	Leu	Leu	Asn	Lys	Gly	Thr	Glu	His	Tyr	Ser
			245						250					255	
Tyr	Pro	Cys	Thr	Pro	Thr	Thr	Met	Leu	Pro	Arg	Ser	Ala	Tyr	Trp	His
			260					265					270		
His	Ile	Thr	Gly	Ser	Gln	Asn	Ile	Ala	Glu	Ala	Ser	Ser	Tyr	Ala	Gly
		275					280					285			
Glu	Gly	Tyr	Gly	Ala	Ala	Gln	Ala	Ser	Ser	Glu	Thr	Asp	Leu	Leu	Asn
	290					295					300				
Arg	Phe	Ile	Leu	Leu	Lys	Pro	Lys	Pro	Ser	Gln	Gly	Asp	Ser	Ser	Glu
305					310					315					320

09629469.072300



Ala Lys Thr Pro Ser Gln  
325

<210> 11469  
<211> 2674  
<212> DNA  
<213> Homo sapiens

<400> 11469

```
acagatggcc tggatcagtg caatgtgcaa caagaggact atatcgtctc agtaaaaacc 60
ttgaagagat gaacccattt cagagaccca gcaagggatc acctgcatac acaggcatca 120
gcagaaacag gaatttggga tttatcctgg aggtagtggg agcttttggg ggtcttaacc 180
aggacagcac atgtggcttt cctgcaatgg gatcgtcctt caagaggacc tcacaggctc 240
tccaccggga ctgtgacgta agcagctgca gcagccttgg atgtttctgg atagccagcc 300
ccatgagaac agctttaaaa taggagactg gcattgtgat gaagtgtgga cttcgtctgc 360
atatagacct ggatttaaat cctggcttca gtgtttatgg atgacattgg acaagtcatt 420
taacctcctt aagtctcaga gttctcattt cggaaatgga gctcttaata gtacctaccc 480
cctagtgtgg ttgtgagggt tgagatcatc tatgttcaaa gtgcttatta tacagagacg 540
gggacatgta agtgctacat aaatgttagc ttttattagt cactggagtg gaggagagag 600
gactgttgcc tccttgtcaa tgtcccatc ctgggaagcc tgccgtgtgt caccaaggcc 660
catctgaccc atatatcaga aaaggtgccc ttctagggag cgacaccccc caccaagccc 720
cccagtcgct gtccatgctt tcctctaggt tcaaaatgca gctgcactctg tgcagaaacc 780
aggtgttgcc tgtgagttct gcctcgctgg ccagagggtg aaggaaggag gaaaggagag 840
gggcctccat acttcagag cccactggg ggttaccttc gcttgcccc actctttttg 900
tcttgcctctg aggatgccag gactttaagg acattgtcag cgagcacaga aagaatctca 960
gtcatctgga ctgctttgtg ctatatgaaa atctctgaga acctcaaga gcccaaaaac 1020
agttctctc catgctgtat gccatggtca gtggttaag agaacatttt gttccactcc 1080
tccagctctg ccttagaaac ccaagccctg cactccaagg ctctggcat cgtacaccag 1140
caccagcaat tttctgcaa aagcatcagc caaatctat tctatctatt tcagttcctc 1200
tcttttcatc ggattgtatt ttacagggtg attgctgatt ctacactgc tcttcagatt 1260
catgtacagc tgtggtctga atgtgtgtgt tttctcaaaa ttcaagttta aaacttaatc 1320
ctcaatgtga tagtatcaac agctgcggcc ttttgaaag tgaagggtgga gccctcgtga 1380
gtgggattag agctcttata aaagagattg aaggagagcta cctagccctt ccatctcttc 1440
tgccctgtga ggacacagtg ttcatccctt ttgtcttccc accatttgaa gatgcagaaa 1500
gaagggtgcca tcttggaagc aaagagcagc cctcaccaga caccaagtct gctggcacct 1560
tgatcttgga cttcccagcc tccaggactg tgagaaatga atttctgttg tttataaatt 1620
acctagtcta aggtatgctg ttacagtagc aggaatggac taagacacac attgtcaaaa 1680
tcttcattgag ttaaagggtg aggtacaatc agaactggtg catggaattg gaaccatagg 1740
tcttagtaaaa cactgtaaaa atgcactatt caaatctaca gaaaatgctc tctcttcaag 1800
ttcagaaaga agctacaatc tgcttttctt tttttctgga agatgtgggg aacgaaattg 1860
gatcttgtgc ttttgggtgc taactttgag ccctcttctt ttacatctaa atgacaattt 1920
gtggatcaat gaggatgtgt caactagcca agatcgagga cctggagggg tgctctgttg 1980
aaactgcttt aaaatccttc agagggtggg cacggagctc tggttctggt tgaagagtcc 2040
tgtcaaggcc atctcaaaa gagaagcaaa gcctgcagag gaggccagcc tgagtccttg 2100
ggtgcgaacg ggtgctgggc tcagcatgag gaggaggaga ccctggccac agttccatga 2160
atctttgctc ccttccacat tatggattct ggctaagaag attttcatct ttcaccacct 2220
gttctggatt cttggaacag gtaaattcat tggcctacgc aagtctgagc tctaggtctg 2280
```

09629469.072800

```

aaccgcgcatg gacctgaggg tgcaccgaga aaagaaaggc tgacaactgg atcccgaggaa 2340
tgtcaaggcc accctgggct tgaagggacc cgccatgcct ccaagccttg cccagagagg 2400
gggttcagga tgctgcgtgg ttccaggtga tctattgctt tctcgagttt aaagttcaga 2460
ggatcatgaa gtaccacagc tggaaggggt gtaagtgaca ctgcctagcc taactctctt 2520
aaaaatcata gccctactcc tgcctcccca aatcagatac gacaggcata ggctctgact 2580
gttccttaag tcttagtggc aatactccct gaccagtttt gcgggggttg tcccagttcc 2640
attgcttttg taacaggtgg ccagaaagcc tggg 2674

```

<210> 11470  
 <211> 743  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (119).. (505)

```

<400> 11470
gatgtcacct ggagcgagta gcgcgcggcg tggaacgcga gtcgcgaccc cggctcccgg 60
cagtggcgcg cactagccct cgcgcgcgac gggacacgag ggctgggagg gcagcgggat 120
gaggctaaag gttggatttc aaggcggggg ctgcttccgg aaagacgcgc tgtgttttga 180
aggtggagtg agcgcgccgt gggcgagggc acctcattct gcacccctgc gcccgccctg 240
ggaactgcac gcggcacccc caccgcgac tccacgcag acagtagtgc ggctgcagg 300
gttcccccg cggacgaggc taatggttcg ctccgccccg cccacacaga ggccgccac 360
tggtcccggc tgcgtttcag gactctggag gaagggactt ggccttcgcc ctgagacgct 420
cttaagggtg ggcggcggtt tctcagttc tgcccagca ctgagacca gactgggtcc 480
ctgcctccgc cctccgccct cggactagtc tcttggaagc cggcctgtct ccgccttcag 540
acctagggag aggtcttaac ctctgttctc agactctgga aaaggcttct caacggcttg 600
gcctgacctc agctcctcgc attccctcca catctcaaga caccaacca gggatgcagg 660
acagacacac agacactcag tgagggtcaa atatctttaa ataaagtgcc aggaacaata 720
aatactgtac aggaagagag tgc 743

```

<210> 11471  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

```

<400> 11471
Met Arg Leu Lys Val Gly Phe Gln Gly Gly Gly Cys Phe Arg Lys Asp
 1             5             10             15
Ala Leu Cys Leu Glu Gly Gly Val Ser Ala Arg Trp Ala Arg Ala Pro
      20             25             30
His Ser Ala Pro Leu Arg Pro Pro Arg Glu Leu His Ala Ala Pro Pro
      35             40             45
Pro Ala Thr Pro Thr Gln Thr Val Val Arg Pro Ala Gly Phe Pro Arg
      50             55             60

```

09529469.072300

Arg Thr Arg Leu Met Val Arg Ser Ala Pro Pro Thr Gln Arg Pro Pro  
65 70 75 80  
Thr Gly Ser Gly Cys Val Ser Gly Leu Trp Arg Lys Gly Leu Gly Leu  
85 90 95  
Arg Pro Gln Thr Leu Leu Arg Val Gly Gly Val Val Leu Ser Ser Ala  
100 105 110  
Pro Ala Leu Arg Pro Arg Leu Gly Pro Cys Leu Arg Pro Pro Pro Ser  
115 120 125  
Asp

<210> 11472  
<211> 1458  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (70).. (813)

<400> 11472  
gtgctgcggc tgtgctcggc cttagtgggtg tgggggtcta gtggacagag aagactcttg 60  
gccaggcaga tggcttctcg gtggcagaac atggggacot cgtgcgccg gagatctctc 120  
cagcaccagg agcagctgga ggacagcaag gagctgcagc ctgtggtcag ccatcaggag 180  
acctctgtag gggccctggg gtccctgtgc agacagttcc aaaggaggct gccctgaga 240  
gccgtcaacc tcaacctccg cgcagggccc tcttgaaac gcctggaaac cccagagcca 300  
ggtcagcagg gcctccaggc tgcagctcgc tcagctaaga gtgctttggg tgccgtgtcc 360  
cagagaatcc aggagtcttg ccaaagtggc accaagtggc tgggtggagac ccaggtgaag 420  
gccaggaggc ggaagagagg agcacagaag ggcagtggat ccccaactca cagcctgagc 480  
cagaagagca cccggctgtc tggagccgcc cctgcccact cagccgcaga cccctgggag 540  
aaggagcatc accgcctctc tgtccggctg ggctcacatg cccaccatt acggcgatca 600  
aggcgggagg ctgccttccg gagcccctac tctcaacag agcccctctg ctctcccagc 660  
gagtctgaca gtgacctaga gcctgtgggg gcgggaattc agcatctcca gaagctgtcc 720  
caagagctag atgaagccat tatggcgga gagaggaaac aagccctgtc tgaccgcca 780  
ggcttcatac tcaaggatgt ctatgcttcc cgtgagctt cctggaaaaa acccccggga 840  
gtcgtcagta cccctgggccc actgctaaca agcacctaac aaggggcccc gagccccctg 900  
ctccagccac atctggaccc atcagtgact gcctgccata gcctgagagt gtcttgggga 960  
gaccttgagc agggggagaa ttgttccttc tgccttccta ggggactctt gagcttagaa 1020  
actcatcgta cacttgacct tgagccttct atttgctca totataacat gaagtgtctag 1080  
catcagatat ttgagagctc ttagctctgt acccggtgct ctggtttttg gggagtcac 1140  
cgcagagtca ctacccact gtgtttcttg tgccaaggct cttgagggcc ccactctcat 1200  
ccctcctttc cctaccaggg actcggagga aggcatagga gatatttcca ggcttacgac 1260  
cctgggctca cgggtaccta tttatatgct cagtgcagag cactgtggat gtgccaggag 1320  
gggtagccct gtcaagagc aatttctgcc ctttgtaaata tattaagaa acctgctttg 1380  
tcattttatt agaaagaaac cagcatgtga ctttctaga taacactgct ttctcataat 1440  
aaagactatt tgcatttg 1458

[illegible]

$\langle 220 \rangle$   
 $\langle 221 \rangle$  CDS

<222> (126).. (1562)

<400> 11474

aagagcaagg	gatcactgtg	ctggggtttaa	atgoggtatt	tgacatcttg	gtgataggca	60
aattcaatgt	tctggaaatt	gtccagaagg	tactacataa	ggacaagtca	ttagagaatc	120
tcggcatgct	caggaacggg	ggcctcctct	tcagaatgac	cctgctcacc	tctggagggg	180
ctgggatgct	ctacgtgcgc	tggaggatca	tgggcacggg	cccgccggcc	ttcaccgagg	240
tggacaaccc	ggcctccttt	gctgacagca	tgctgggtgag	ggccgtaaac	tacaattact	300
actattcatt	gaatgcctgg	ctgctgctgt	gtccctgggtg	gctgtgtttt	gattggtcaa	360
tgggctgcat	ccccctcatt	aagtccatca	gcgactggag	ggtaattgca	cttgacgac	420
tctggttctg	cctaattggc	ctgatatgcc	aagccctgtg	ctctgaagac	ggccacaaga	480
gaaggatcct	tactctgggc	ctgggatttc	tcgttatccc	atttctcccc	gcgagtaacc	540
tgttcttcog	agtgggcttc	gtggtcgcgg	agcgtgtcct	ctacctcccc	agcgttgggt	600
actgtgtgct	gctgactttt	ggattcggag	ccctgagcaa	acataccaag	aaaaagaaac	660
ccattgccgc	tgtcgtgctg	ggaatcttat	tcatacaac	gctgagatgt	gtgctgcgca	720
gcggcgagtg	gcggagttag	gaacagcttt	tcagaagtgc	tctgtctgtg	tgtccccctca	780
atgctaaggt	tcactacaac	attggcaaaa	acctggctga	taaaggcaac	cagacagctg	840
ccatcagaaa	ctaccgggaa	gctgtaagat	taaatcccaa	gtatgttcat	gccatgaata	900
atcttggaaa	tatcttaaaa	gaaaggaatg	agctacagga	agctgaggag	ctgctgtctt	960
tggctgttca	aatacagcca	gactttgccc	ctgctgtgat	gaatctaggc	atagtgcaga	1020
atagcctgaa	acggtttgaa	gcagcagagc	aaagttaccg	gacagcaatt	aaacacagaa	1080
ggaaaataccc	agactgttac	tacaacctcg	ggcgtctgta	tgcagatctc	aatcgccacg	1140
tggatgcctt	gaatgcgtgg	agaaatgcc	ccgtgctgaa	accagagcac	agcctggcct	1200
ggaacaacat	gattatactc	ctcgacaata	caggtaattt	agcccaagct	gaagcagttg	1260
gaagagaggc	actggaatta	atacctaata	atcactctct	catgttctcg	ttggcaaacg	1320
tgtctggggaa	atcccaggaa	tacaaggaat	ctgaagcttt	attcctcaag	gcaattaaag	1380
caaataccaaa	tgctgcaagt	taccatggta	atttggctgt	gctttatcat	cgttggggac	1440
atctagactt	ggccaagaaa	cactatgaaa	tctccttgca	gcttgacccc	acggcatcag	1500
gaactaagga	gaattacggt	ctgctgagaa	gaaagctaga	actaatgcaa	aagaaagctg	1560
tctgatcctg	tttcttcat	gttttgagtt	tgagtgtgtg	tgcattgaggc	atatcattaa	1620
tagtatgtgg	ttacatttta	ccatttaaaa	gtcttagaca	tgttatttta	ctgatttttt	1680
tctatgaaaa	caaagacatg	caaaaagatt	atagcaccag	caatatactc	ttgaatgcgt	1740
gatatgattt	ttcattgaaa	ttgtattttt	tcagacaact	caaatagtat	tctaaaattc	1800
caaaaatgtc	ttttttaatt	aaacagaaaa	agagaaaaaa	ttatcttgag	caacttttag	1860
tagaattgag	cttacatttg	ggatctgagc	cttgtcgtgt	atggactagc	actattaaac	1920
ttcaattatg	accaagaaa	gatacactgg	cccctacaat	ttgtataaat	attgaacatg	1980
tctatatatt	agcattttta	tttaatgaca	aagcaaat	agttttttta	tctctttttt	2040
ttaaaacaac	atactgtgaa	ctttgtaagg	aaatatattt	ttgtattttt	atgttttgaa	2100
tagggcaaat	aatcgaatga	ggaatggaag	ttttaacata	gtatatctat	atgcttttcc	2160
ccataggaag	aaattgactc	ttgcagtttt	tggatgctct	gacttgtgca	atttcaatac	2220
acaggagatt	atgtaatgta	atatttttca	taagcggtta	ctatcaattg	aaagttcaag	2280
ccatgcttta	ggcaagagca	ggcagcctca	catctttatt	tttgttacat	ccaaggtgaa	2340
gagggcaaca	catctgtgta	agctgctttt	tagtgtgttt	atctgaaggc	cgttttccat	2400
tttgottaat	gtaactacag	acattatcca	gaaaatgcaa	aattttctat	caaattggagc	2460
cacattcggg	gaattcgtgg	tatttttaag	aattgagttg	ttcctgctgt	tttttatattg	2520
atccaaacaa	tgttttggtt	tgttcttctc	tgtatgctgt	tgacctaatg	atttatgcaa	2580
tctctgtaat	ttcttatgca	gtaaaattac	tacacaaact	ag		2622

09629459.072300

<210> 11475  
 <211> 479  
 <212> PRT  
 <213> Homo sapiens

<400> 11475

Met	Leu	Arg	Asn	Gly	Gly	Leu	Leu	Phe	Arg	Met	Thr	Leu	Leu	Thr	Ser
1				5					10					15	
Gly	Gly	Ala	Gly	Met	Leu	Tyr	Val	Arg	Trp	Arg	Ile	Met	Gly	Thr	Gly
			20					25					30		
Pro	Pro	Ala	Phe	Thr	Glu	Val	Asp	Asn	Pro	Ala	Ser	Phe	Ala	Asp	Ser
		35					40					45			
Met	Leu	Val	Arg	Ala	Val	Asn	Tyr	Asn	Tyr	Tyr	Tyr	Ser	Leu	Asn	Ala
	50					55					60				
Trp	Leu	Leu	Leu	Cys	Pro	Trp	Trp	Leu	Cys	Phe	Asp	Trp	Ser	Met	Gly
	65				70					75					80
Cys	Ile	Pro	Leu	Ile	Lys	Ser	Ile	Ser	Asp	Trp	Arg	Val	Ile	Ala	Leu
				85					90					95	
Ala	Ala	Leu	Trp	Phe	Cys	Leu	Ile	Gly	Leu	Ile	Cys	Gln	Ala	Leu	Cys
			100					105					110		
Ser	Glu	Asp	Gly	His	Lys	Arg	Arg	Ile	Leu	Thr	Leu	Gly	Leu	Gly	Phe
		115				120						125			
Leu	Val	Ile	Pro	Phe	Leu	Pro	Ala	Ser	Asn	Leu	Phe	Phe	Arg	Val	Gly
	130					135					140				
Phe	Val	Val	Ala	Glu	Arg	Val	Leu	Tyr	Leu	Pro	Ser	Val	Gly	Tyr	Cys
	145				150					155					160
Val	Leu	Leu	Thr	Phe	Gly	Phe	Gly	Ala	Leu	Ser	Lys	His	Thr	Lys	Lys
				165				170						175	
Lys	Lys	Pro	Ile	Ala	Ala	Val	Val	Leu	Gly	Ile	Leu	Phe	Ile	Asn	Thr
			180					185					190		
Leu	Arg	Cys	Val	Leu	Arg	Ser	Gly	Glu	Trp	Arg	Ser	Glu	Glu	Gln	Leu
		195					200					205			
Phe	Arg	Ser	Ala	Leu	Ser	Val	Cys	Pro	Leu	Asn	Ala	Lys	Val	His	Tyr
	210					215					220				
Asn	Ile	Gly	Lys	Asn	Leu	Ala	Asp	Lys	Gly	Asn	Gln	Thr	Ala	Ala	Ile
	225				230					235					240
Arg	Asn	Tyr	Arg	Glu	Ala	Val	Arg	Leu	Asn	Pro	Lys	Tyr	Val	His	Ala
				245					250					255	
Met	Asn	Asn	Leu	Gly	Asn	Ile	Leu	Lys	Glu	Arg	Asn	Glu	Leu	Gln	Glu
			260					265					270		
Ala	Glu	Glu	Leu	Leu	Ser	Leu	Ala	Val	Gln	Ile	Gln	Pro	Asp	Phe	Ala
		275					280						285		
Ala	Ala	Trp	Met	Asn	Leu	Gly	Ile	Val	Gln	Asn	Ser	Leu	Lys	Arg	Phe
	290					295					300				
Glu	Ala	Ala	Glu	Gln	Ser	Tyr	Arg	Thr	Ala	Ile	Lys	His	Arg	Arg	Lys
	305				310					315					320
Tyr	Pro	Asp	Cys	Tyr	Tyr	Asn	Leu	Gly	Arg	Leu	Tyr	Ala	Asp	Leu	Asn

09629469.072800

325 330 335  
Arg His Val Asp Ala Leu Asn Ala Trp Arg Asn Ala Thr Val Leu Lys  
340 345 350  
Pro Glu His Ser Leu Ala Trp Asn Asn Met Ile Ile Leu Leu Asp Asn  
355 360 365  
Thr Gly Asn Leu Ala Gln Ala Glu Ala Val Gly Arg Glu Ala Leu Glu  
370 375 380  
Leu Ile Pro Asn Asp His Ser Leu Met Phe Ser Leu Ala Asn Val Leu  
385 390 395 400  
Gly Lys Ser Gln Glu Tyr Lys Glu Ser Glu Ala Leu Phe Leu Lys Ala  
405 410 415  
Ile Lys Ala Asn Pro Asn Ala Ala Ser Tyr His Gly Asn Leu Ala Val  
420 425 430  
Leu Tyr His Arg Trp Gly His Leu Asp Leu Ala Lys Lys His Tyr Glu  
435 440 445  
Ile Ser Leu Gln Leu Asp Pro Thr Ala Ser Gly Thr Lys Glu Asn Tyr  
450 455 460  
Gly Leu Leu Arg Arg Lys Leu Glu Leu Met Gln Lys Lys Ala Val  
465 470 475

<210> 11476  
<211> 2700  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1819).. (2277)

<400> 11476  
ggtccaaact cctaagagct aggccttcgga aataccatgt gtacagtcac ctttccagca 60  
cctgcacaat atcataaaat cattgtcttt gagctgaagt ggtcctaata agtcagcctt 120  
tccattttac agatgagaaa atagaccag agaggttaag tcacacgggtg gtttgtggca 180  
aagctagaaa cataactgtg gtctctctct catagttctt tccactacac tattacattt 240  
ctcaactctg aaaaaccacc ataaagcata atggctacct aaaataaatg gcccatcttct 300  
aaagtaatta gtattcctaa acaaatttta agtagctotg cttctccagt gacatttttg 360  
tttaaagaat caaggggagg ctgggtgcag tggctcatcc ctgtaatccc agcaatttgc 420  
aaggccgagg tgggcagatc acttgaaccc aggagttcaa gacaagcctc ggcaacatga 480  
caaaacctca tctctacaaa aaatacaaaa attagccagg ccagtggtga tgtgcctgta 540  
atcccaacta ctgaggaggc tgagggtggga ggattgtttg aacttgggag gctgaggtag 600  
gagtgaagcc agatcacgcc actgcactcc tgctaggcca acagagctag accctgtctc 660  
aaaataaaaa agaaaggata aaggagattt gattaataga ttaataaact gttctttcct 720  
gattggttat gatgttgaac tacttcccaa attatgtaac caaattttotg tgtggctctg 780  
gtgctattag gtcaaaactt tggggaacta agcatgagat agcatactcc tgtttccttc 840  
tctgtccag ggaaatacaa attccctttt gcctcaatta gagaaggatg tctattcttg 900  
ctacaaatta tgatttatgt cctgggtgtca aatgaagata agaataagat caaagaaagg 960  
caagatgatt gtggaagaga aagaaaaagg attaatatag atttatitaa ccaagaaaca 1020

0032/0.69462960

```

tttatttcgt atctcctatt tccaggctga gtgctaagaa ataaaaatgat gagtagagta 1080
tagcctttct cctcaaggag cttaccctct aatcatggga gagacagaca tgtaactagt 1140
taaaccatat tgtttggtgg cttgaaccat gccagtagta gccactatta aggaaggaac 1200
tgaagggcac ttactgattt gggtaatagt gggaaaaatc agagaggagg gaggatttag 1260
attgaagtat gtgcttctat tttagaaggg gctgtattta ctatgtttat tacttaaaaag 1320
ttcataaaaag ccaataatac gggtttgagc tgtgttagta atgagttaac aaacatatca 1380
ggattattta acctccctga gcccctgttc tctaaatggg agaataataa ctctacctga 1440
ttgagttctt ggaaaataac atagtgtaat ggaaagagca ggctttggag gaaaagagga 1500
tttgactttg catctctatc aattaattgt gtgactttga gcaagttatt taactctctg 1560
agcttcactt tccttatgtg caaaatggat aacaccatgg cataagacaa tcccatgaag 1620
ataagatata aaagaagata atgtttgaaa agaaagaagg aagtggatgc tttggaagaa 1680
ttaagcaggc agctttttct ggaaacagct gatctatatg ctaccaagga gagaatagaa 1740
tactccaaaa ccttcaaggg gaaatatttt aattttcttg gttacttttt ctctatttac 1800
tgtgtttgga aaattttcat ggctaccatc aatattgttt ttgatcgagt tgggaaaacg 1860
gatcctgtca caagaggcat tgagatcact gtgaattatc tgggaatcca atttgatgtg 1920
aagtttttgt cccaacacat ttcttctcatt cttgtttggaa taatcatcgt cacatccatc 1980
agaggattgc tgatcactct taccaagttc ttttatgcc tctctagcag taagtccctc 2040
aatgtcattg tcctgctatt agcacagata atgggcatgt actttgtctc ctctgtgctg 2100
ctgatccgaa tgagtatgcc tttagaatac cgcaccataa tcaactgaag ccttggagaa 2160
ctgcagttca acttctatca ccgttggttt gatgtgatct tcctggtcag cgctctctct 2220
agcataactc tcctctattt ggctcacaaa caggcaccag agaagcaaat ggcacctga 2280
acttaagcct actacagact gttagaggcc agtgggtttca aaatttagat ataagagggg 2340
ggaaaaatgg aaccagggcc tgacatttta taaacaaaca aaatgctatg gtagcatttt 2400
tcaccttcat agcatactcc ttccccgtca ggtgatacta tgaccatgag tagcatcagc 2460
cagaacatga gagggagaa taactcaaga caatactcag cagagagcat cccgtgtgga 2520
tatgaggctg gtgtagaggc ggagaggagc caagaaacta aaggtgaaaa atacactgga 2580
actctggggc aagacatgtc tatggtagct gagccaaaca cgtaggattt ccgttttaag 2640
gttcacatgg aaaaggttat agctttgcct tgagattgac tcattaaaat cagagactgt 2700

```

<210> 11477  
 <211> 153  
 <212> PRT  
 <213> Homo sapiens

<400> 11477

Met	Ala	Thr	Ile	Asn	Ile	Val	Phe	Asp	Arg	Val	Gly	Lys	Thr	Asp	Pro
1				5				10						15	
Val	Thr	Arg	Gly	Ile	Glu	Ile	Thr	Val	Asn	Tyr	Leu	Gly	Ile	Gln	Phe
			20					25						30	
Asp	Val	Lys	Phe	Trp	Ser	Gln	His	Ile	Ser	Phe	Ile	Leu	Val	Gly	Ile
			35					40						45	
Ile	Ile	Val	Thr	Ser	Ile	Arg	Gly	Leu	Leu	Ile	Thr	Leu	Thr	Lys	Phe
			50					55						60	
Phe	Tyr	Ala	Ile	Ser	Ser	Ser	Lys	Ser	Ser	Asn	Val	Ile	Val	Leu	Leu
							70							80	
Leu	Ala	Gln	Ile	Met	Gly	Met	Tyr	Phe	Val	Ser	Ser	Val	Leu	Leu	Ile
														95	



-4954/13211-

Arg Met Ser Met Pro Leu Glu Tyr Arg Thr Ile Ile Thr Glu Val Leu  
                    100                    105                    110  
Gly Glu Leu Gln Phe Asn Phe Tyr His Arg Trp Phe Asp Val Ile Phe  
                    115                    120                    125  
Leu Val Ser Ala Leu Ser Ser Ile Leu Phe Leu Tyr Leu Ala His Lys  
                    130                    135                    140  
Gln Ala Pro Glu Lys Gln Met Ala Pro  
145                                    150

<210> 11478  
<211> 2076  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (118).. (990)

<400> 11478  
gctggagccg gcgcggagga gcggggcggcc gcggctgtgc cctctcctac tcctcaccgc 60  
gcgcgcgcgg ggaaccagta gccgcggctg cttcggttgc ogcggtcggg ggtcgttatg 120  
gattctccat gggacgagtt ggctctggcc ttctcccgca cgtccatgtt tccctttttt 180  
gacatcgcgc actatctagt gtcagtgatg gcggtgaaac gtcagccggg agcagctgca 240  
ttggcatgga agaatcctat ttcaagctgg ttacttgcta tgotccactg ttttggtgga 300  
ggaattttat cctgtctact gcttgacagag cctccattga agttttcttg aaaccacact 360  
aacatattac tggcatcttc aatctggtat attacatttt ttgcccgcga tgacctagtt 420  
tccaggggct attcatatct acctgttcaa ctactggctt cggaagttaa ggaagtgaac 480  
agaacttgga aaatagtagg tggagtcaca catgctaata gctattacaa aaatggctgg 540  
atagtcatga tagctattgg atgggcccga ggtgcagggt gtaccattat aacgaatttt 600  
gagagggttg taaaaggaga ttggaacca gaaggatgat aatggctgaa gatgtcatac 660  
cctgccaaag taacctgct ggggtcagtt atcttcacat tccagcacac ccagcatctg 720  
gcaatatcaa agcataatct tatgttcctt tataccatct ttattgtggc cacaagata 780  
accatgatga ctacacagac ttctactatg acatttgctc cttttgagga tacattgagt 840  
tggatgctat ttggctggca gcagccgttt tcatcatgtg agaagaaaag tgaagcaaag 900  
tcaccttcca atggcgttgg gtcattggcc tcaaagccgg tagatgttgc ctgagataat 960  
gttaaaaaa aacatactaa gaagaatgaa taaatttaac tgatgagctc tacaaggcca 1020  
aaaatttttt ttcttatcta cctgttatat tgtgctaatt ttctatgta tgtgatgtga 1080  
aatgaagact atatatatgg aatggagggt acagaaagaa agaaattctt tgtttgaggg 1140  
agaactcccc tttctggatt gtattttagt agtgttacga gtgtatcatg tgattatgct 1200  
ttaccggtat aagagattct gttgtgatta ttgaatagt ttatatataa taaaagaaga 1260  
caaaattttt taaatgttag aaaaagcaga tctgtcattg caaagtaaca aaaattttta 1320  
gotttttaaaa atgtagattt ttcatatttt taaaatttga atotatttga gotttagttc 1380  
agcagaatta aatttttact tgacattatc attaaaattg ctaggtatgg agaacaattc 1440  
ctattttatt ttgaacactg agaagagtaa acttttccta aaacacttta tattataaat 1500  
gaaaataaat tgctagttaa ttttttagat ataaacatca ttttttttat taatacctac 1560  
atcaaatgga aaatatctga aatttttttt ccatagcagg tattttctac tagaagtagt 1620  
tttactactt ttcatttaga acagagtatg agtcttaato tgaagtcott ttcatgccct 1680

09629469.07300

tgttttaaaa aaactacttt ttttggcctc aaaaaaatca aggggtgtaat ttttaataaa 1740  
 ttgttaatcc tatgttttgt aattttcatt ttaggagctt gacttatattt tttctctctc 1800  
 ataaaaacac atttgtttta attgtaggag aaattttctc agcattttgc atgttctttc 1860  
 taatctttgt tggcttgaat atattggtag taattactgt aattattcaa caaaaagcat 1920  
 atccgttcaa aaatttttcc actatgtott tttctagtgt gctactgttt tagttttcta 1980  
 gttgaatata tctgacaagc tttcgtatgg ttttggtata tcttcactca catgtaatgt 2040  
 gttattaatt ttattaaatg aaaactaatc accttc 2076

<210> 11479

<211> 291

<212> PRT

<213> Homo sapiens

<400> 11479

Met	Asp	Ser	Pro	Trp	Asp	Glu	Leu	Ala	Leu	Ala	Phe	Ser	Arg	Thr	Ser
1				5					10					15	
Met	Phe	Pro	Phe	Asp	Ile	Ala	His	Tyr	Leu	Val	Ser	Val	Met	Ala	
		20				25						30			
Val	Lys	Arg	Gln	Pro	Gly	Ala	Ala	Ala	Leu	Ala	Trp	Lys	Asn	Pro	Ile
		35				40						45			
Ser	Ser	Trp	Phe	Thr	Ala	Met	Leu	His	Cys	Phe	Gly	Gly	Gly	Ile	Leu
	50					55				60					
Ser	Cys	Leu	Leu	Leu	Ala	Glu	Pro	Pro	Leu	Lys	Phe	Leu	Ala	Asn	His
	65				70					75				80	
Thr	Asn	Ile	Leu	Leu	Ala	Ser	Ser	Ile	Trp	Tyr	Ile	Thr	Phe	Phe	Cys
			85						90					95	
Pro	His	Asp	Leu	Val	Ser	Gln	Gly	Tyr	Ser	Tyr	Leu	Pro	Val	Gln	Leu
			100					105					110		
Leu	Ala	Ser	Gly	Met	Lys	Glu	Val	Thr	Arg	Thr	Trp	Lys	Ile	Val	Gly
		115				120						125			
Gly	Val	Thr	His	Ala	Asn	Ser	Tyr	Tyr	Lys	Asn	Gly	Trp	Ile	Val	Met
	130					135					140				
Ile	Ala	Ile	Gly	Trp	Ala	Arg	Gly	Ala	Gly	Gly	Thr	Ile	Ile	Thr	Asn
	145				150					155					160
Phe	Glu	Arg	Leu	Val	Lys	Gly	Asp	Trp	Lys	Pro	Glu	Gly	Asp	Glu	Trp
			165					170					175		
Leu	Lys	Met	Ser	Tyr	Pro	Ala	Lys	Val	Thr	Leu	Leu	Gly	Ser	Val	Ile
		180						185					190		
Phe	Thr	Phe	Gln	His	Thr	Gln	His	Leu	Ala	Ile	Ser	Lys	His	Asn	Leu
		195				200						205			
Met	Phe	Leu	Tyr	Thr	Ile	Phe	Ile	Val	Ala	Thr	Lys	Ile	Thr	Met	Met
	210					215					220				
Thr	Thr	Gln	Thr	Ser	Thr	Met	Thr	Phe	Ala	Pro	Phe	Glu	Asp	Thr	Leu
	225				230					235					240
Ser	Trp	Met	Leu	Phe	Gly	Trp	Gln	Gln	Pro	Phe	Ser	Ser	Cys	Glu	Lys
			245					250					255		
Lys	Ser	Glu	Ala	Lys	Ser	Pro	Ser	Asn	Gly	Val	Gly	Ser	Leu	Ala	Ser

003220.69462960

-4956/13211-

260 265 270  
Lys Pro Val Asp Val Ala Ser Asp Asn Val Lys Lys Lys His Thr Lys  
275 280 285  
Lys Asn Glu  
290

<210> 11480  
<211> 2328  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (344).. (1795)

<400> 11480  
gtttctgtcg caggctgcga ggaaaggccc ctaggctggg tctgggtgct tggcggcggc 60  
ggcttcctcc ccgctcgtcc tccccgggccc cagaggcacc tcggcttcag tcatgctgag 120  
cagagtatgg aagcacctga ctacgaagtg ctatccgtgc gagaacagct attccacgag 180  
aggatccgcg agtgtattat atcaaacactt ctgtttgcaa cactgtacat cctctgccac 240  
atcttcctga cccgcttcaa gaagcctgct gaggtcacca cagtttcac ctaaaaaatg 300  
ggcgttaacaa tgtctaccta ctccattgtg tggaccaaag gagatggta atgtgaaagc 360  
cctttgtgaa cctgaagtga gcaactgctg gatgaatgtc attacgggca caggctctgt 420  
gtcatctcct ctccatagtg ttccacagcc aggaccagag acctccctga tgactgggga 480  
acctgtggat gatgaagatg ccaccgtcaa caagattgct ctcgagctgt gcacctttac 540  
cctggcaatt gccctgggtg ctgtcctgct cctgcccttc tccatcatca gcaatgaggt 600  
gctgctctcc ctgcctcgga actactacat ccagtggctc aacggctccc tcatccatgg 660  
cctctggaac cttgtttttc tcttctccaa cctgtccctc atcttcctca tgccctttgc 720  
atatttcttc actgagtctg agggccttgc tggctccaga aagggtgtcc tgggccgggt 780  
ctatgagaca gtgggtgacgt tgatgctcct cactctgctg gtgctaggta tgggtgtgggt 840  
ggcatcagcc attgtggaca agaacaaggc caacagagag tcaactctatg acttttggga 900  
gtactatctc ccctacctct actcatgcat ctcccttctt ggggttctgc tgctcctggt 960  
gtgtactcca ctgggtctcg cccgcatgtt ctccgtcact gggaagctgc tagtcaagcc 1020  
ccggctgctg gaagacctgg aggagcagct gtactgctca gcctttgagg aggcagccct 1080  
gacccgcagg atctgtaatc ctacttccctg ctggctgcct ttagacatgg agctgctaca 1140  
cagacaggtc ctggctctgc agacacagag ggtcctgctg gagaagaggc ggaaggcttc 1200  
agcctggcaa cggaacctgg gctacccctt ggctatgctg tgcttgctgg tgctgacggg 1260  
cctgtctgtg ctcatgttgg ccattccacat cctggagctg ctcatcgatg aggctgccat 1320  
gccccgagtc atgcagggtg cctccttagg ccaggctctc ttotccaagc tgggtcctt 1380  
tggtgccgtc attcagggtg tactcatctt ttacctaatg gtgtcctcag ttgtgggctt 1440  
ctatagctct ccaactcttc ggagcctgct gccagatgg cacgacactg ccatgacgca 1500  
gataattggg aactgtgtct gtctcctggt cctaagctca gcacttctg tcttctctcg 1560  
aaccctgggg ctcaactgct ttgacctgct ggggtgacttt ggacgcttca actggctggg 1620  
caatttctac attgtgttcc tctacaacgc agcctttgca ggctcacca cactctgtct 1680  
ggatgaagacc ttcaactgcag ctgtgctgggc agagctgac cgggcctttg ggctggacag 1740  
actgccgtg cccgtctccg gtttcccca ggcatctagg aagaccagc accagtgacc 1800  
tccagctggg ggtgggaagg aaaaaactgg acactgccat ctgctgccta ggccctggagg 1860

00927069462960

```

gaagcccaag gctacttggg cctcaggacc tggaatctga gaggggtgggt ggcagagggg 1920
agcagagcca tctgcactat tgcataatct gagccagagt ttgggaccag gacctcctgc 1980
ttttccatac ttaactgtgg cctcagcatg gggtagggct gggtgactgg gtctagcccc 2040
tgatcccaaa tctgtttaca catcaatctg cctcactgct gttctggggc atcccatag 2100
ccatgtttac atgatttgat gtgcaatagg gtggggtagg ggcagggaaa ggactggggc 2160
agggcaggct cgggagatag attgtctccc ttgcctctgg ccagcagag cctaagcact 2220
gtgctatcct ggaggggctt tggaccacct gaaagaccaa ggggataggg aggaggaggc 2280
ttcagccatc agcaataaag ttgatcccag gggttgcctt gttttttt 2328

```

<210> 11481

<211> 484

<212> PRT

<213> Homo sapiens

<400> 11481

```

Met Val Asn Val Lys Ala Leu Cys Glu Pro Glu Val Ser Asn Cys Trp
  1          5          10          15
Met Asn Val Ile Thr Gly Thr Gly Ser Val Ser Ser Pro Leu Leu Val
          20          25          30
Leu Pro Gln Pro Gly Pro Glu Thr Ser Leu Met Thr Gly Glu Pro Val
          35          40          45
Asp Asp Glu Asp Ala Thr Val Asn Lys Ile Ala Leu Glu Leu Cys Thr
          50          55          60
Phe Thr Leu Ala Ile Ala Leu Gly Ala Val Leu Leu Leu Pro Phe Ser
          65          70          75          80
Ile Ile Ser Asn Glu Val Leu Leu Ser Leu Pro Arg Asn Tyr Tyr Ile
          85          90          95
Gln Trp Leu Asn Gly Ser Leu Ile His Gly Leu Trp Asn Leu Val Phe
          100          105          110
Leu Phe Ser Asn Leu Ser Leu Ile Phe Leu Met Pro Phe Ala Tyr Phe
          115          120          125
Phe Thr Glu Ser Glu Gly Phe Ala Gly Ser Arg Lys Gly Val Leu Gly
          130          135          140
Arg Val Tyr Glu Thr Val Val Thr Leu Met Leu Leu Thr Leu Leu Val
          145          150          155          160
Leu Gly Met Val Trp Val Ala Ser Ala Ile Val Asp Lys Asn Lys Ala
          165          170          175
Asn Arg Glu Ser Leu Tyr Asp Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu
          180          185          190
Tyr Ser Cys Ile Ser Phe Leu Gly Val Leu Leu Leu Leu Val Cys Thr
          195          200          205
Pro Leu Gly Leu Ala Arg Met Phe Ser Val Thr Gly Lys Leu Leu Val
          210          215          220
Lys Pro Arg Leu Leu Glu Asp Leu Glu Glu Gln Leu Tyr Cys Ser Ala
          225          230          235          240
Phe Glu Glu Ala Ala Leu Thr Arg Arg Ile Cys Asn Pro Thr Ser Cys
          245          250          255

```

09629469.072300

Trp Leu Pro Leu Asp Met Glu Leu Leu His Arg Gln Val Leu Ala Leu  
260 265 270  
Gln Thr Gln Arg Val Leu Leu Glu Lys Arg Arg Lys Ala Ser Ala Trp  
275 280 285  
Gln Arg Asn Leu Gly Tyr Pro Leu Ala Met Leu Cys Leu Leu Val Leu  
290 295 300  
Thr Gly Leu Ser Val Leu Ile Val Ala Ile His Ile Leu Glu Leu Leu  
305 310 315 320  
Ile Asp Glu Ala Ala Met Pro Arg Val Met Gln Gly Thr Ser Leu Gly  
325 330 335  
Gln Val Ser Phe Ser Lys Leu Gly Ser Phe Gly Ala Val Ile Gln Val  
340 345 350  
Val Leu Ile Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser  
355 360 365  
Ser Pro Leu Phe Arg Ser Leu Arg Pro Arg Trp His Asp Thr Ala Met  
370 375 380  
Thr Gln Ile Ile Gly Asn Cys Val Cys Leu Leu Val Leu Ser Ser Ala  
385 390 395 400  
Leu Pro Val Phe Ser Arg Thr Leu Gly Leu Thr Arg Phe Asp Leu Leu  
405 410 415  
Gly Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Phe  
420 425 430  
Leu Tyr Asn Ala Ala Phe Ala Gly Leu Thr Thr Leu Cys Leu Val Lys  
435 440 445  
Thr Phe Thr Ala Ala Val Arg Ala Glu Leu Ile Arg Ala Phe Gly Leu  
450 455 460  
Asp Arg Leu Pro Leu Pro Val Ser Gly Phe Pro Gln Ala Ser Arg Lys  
465 470 475 480  
Thr Gln His Gln

<210> 11482  
<211> 2574  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (16).. (2037)

<400> 11482  
tatattatcc tgtacatgca aatcactgag gagcagatta aagtatggac agccaacccc 60  
caacaatttg tagaagatga agatgatgat acattctcct atactgttag aatagcagct 120  
caagacttgt tgctggctgt ggccacagat ttccagaatg aaagtgcagc agccctggct 180  
gctgcagcca ctgcacattt acaagaagct gagcaaacca aaaacagtgg cactgagcac 240  
tggtggaaga tccatgagga atgcatgctt gccctaggct cagtgaaggc catcatcact 300  
gacagtgtga aaaatggcag gattcatttt gacatgcatg ggttcctgac caatgtcatc 360

00220.646296

002220.5962960

```

cttgcagacc tcaacctctc agtgtctcct ttctctttgg gccgggcact ttgggctgcc 420
agtcggttca ctgttgctat gtcccttgaa ctgatccagc agttcctaca ggcaacagtt 480
agtggtcttc acgagacaca gccccatca gttcgaattt ctgcagttag agccatctgg 540
ggttattgtg accaactgaa agtctcagag agtaccacag tgctccagcc cttcctcccc 600
agcatccttg atggcttaat tcacctagca gccagttca gctcagaggt cctcaacctg 660
gtgatggaga ccctgtgcat cgtttgtaca gtagaccccg aattcacagc aagcatggaa 720
agcaaaatct gcccttcac catcgccatt ttctaaaagt acagtaatga tcccgctcgtc 780
gcctcactgg ctcaggacat cttcaaggag ctgtcccaga ttgaagcctg tcagggccca 840
atgcaaatga ggctgattcc cactctggtc agcataatgc agggcccagc agacaagatt 900
cctgcagggc tttgtgcgac agccattgat atcctgacaa cagtagtacg aaatacaaag 960
cctccccctt cccagcttct catctgcaa gctttccctg ctgtggcaca gtgtaccctt 1020
cacacagatg acaatgccac catgcagaat ggcgagagat gcttgccggc ctatgtgtca 1080
gtgaccctgg aacaagtagc ccagtggcat gatgagcagg gccacaatgg actgtggtat 1140
gtgatgcaag tggtagacca gctcctggac cccgcacct cagagttcac tgcggccttt 1200
gtgggcccgc ttgtttccac cctcatctcc aaggcagggc ggggaactcg ggagaatcta 1260
gaccagattc ttcgtgccat cctcagtaag atgcagcagg cagagacgct cagtgtcatg 1320
cagtccttga tcatgggtgt cgtcatctg gtgcacactc agctagaacc tctcttgag 1380
ttcctgtgta gcctcccagg acctactggc aaacctgctc tagagtttgt gatggctgag 1440
tggacaagcc gacagcacct gttctatgga cagtatgaag gcaaagtcag ctctgtggca 1500
ctctgtaagc tgctccagca tggcatcaat gcagatgaca aacggctaca ggatatccgt 1560
gtgaaggagg aggagatcta cagcatggat gagggcatcc gcacccgctc taagtacgcc 1620
aaaaaaccag aacgctggac aaacattcct ttgctggta agatccctaaa gctgatcatc 1680
aacgagctct ccaacgtcat ggaggcta at ggcgctcccc agggcactcc tgcagagtgg 1740
agtcaagatg actccaatga tatgtgggag gaccaggagg aggaagagga ggaggaggag 1800
gatggtttag ctggccaact tttatctgac attcttgcta caagtaaata tgaggaggat 1860
tactacgagg atgatgagga agatgacct gatgccctga aggatcctct ctatcagatt 1920
gatctgcagg catatctcac agatttcctc tgccagtttg ctcagcagcc ctgctacata 1980
atgttttcag gccaccttaa tgacaatgag aggcgagttc tacagaccat cggcatctaa 2040
aaaggggagc ctttctacat ttgctccttc tgggcccagc gcaaaccatt ttgcagccct 2100
cactggcctt gagatgcact ttcttctcaa cctaaagtgg catcttgacc cttggccctt 2160
ggcctcggca gtgacactga tgacaattca gaccaggctc accggtgccg tcaacttagga 2220
atgctggaac aaaggacatt tctcaaagtt cccctgaaga catgccatct ctagaacctt 2280
ttttctcccc gactctaccc ccacctctgt tcttagagcc ctctgctggc gagtccagaa 2340
acattattgc ccagaaggat tatgtgttta tggattatit tgcgccgctt caggagcgca 2400
ggaagtcact accatttata ttctaaaaca gacctatcta tgttcatagg acttctgatg 2460
tgttcagata ggaatcctca tgagagatca ttatgctttg tgccttgac cactgctgct 2520
ctgggttctc aggaggaaca ggcaagagca gcttcattct aagcctttcc agt 2574

```

<210> 11483  
 <211> 674  
 <212> PRT  
 <213> Homo sapiens

<400> 11483  
 Met Gln Ile Thr Glu Glu Gln Ile Lys Val Trp Thr Ala Asn Pro Gln  
 1 5 10 15  
 Gln Phe Val Glu Asp Glu Asp Asp Asp Thr Phe Ser Tyr Thr Val Arg

-4960/13211-

			20					25				30					
Ile	Ala	Ala	Gln	Asp	Leu	Leu	Leu	Ala	Val	Ala	Thr	Asp	Phe	Gln	Asn		
		35					40					45					
Glu	Ser	Ala	Ala	Ala	Leu	Ala	Ala	Ala	Ala	Thr	Arg	His	Leu	Gln	Glu		
	50					55					60						
Ala	Glu	Gln	Thr	Lys	Asn	Ser	Gly	Thr	Glu	His	Trp	Trp	Lys	Ile	His		
65					70				75						80		
Glu	Ala	Cys	Met	Leu	Ala	Leu	Gly	Ser	Val	Lys	Ala	Ile	Ile	Thr	Asp		
			85						90					95			
Ser	Val	Lys	Asn	Gly	Arg	Ile	His	Phe	Asp	Met	His	Gly	Phe	Leu	Thr		
			100					105					110				
Asn	Val	Ile	Leu	Ala	Asp	Leu	Asn	Leu	Ser	Val	Ser	Pro	Phe	Leu	Leu		
	115						120					125					
Gly	Arg	Ala	Leu	Trp	Ala	Ala	Ser	Arg	Phe	Thr	Val	Ala	Met	Ser	Pro		
	130					135					140						
Glu	Leu	Ile	Gln	Gln	Phe	Leu	Gln	Ala	Thr	Val	Ser	Gly	Leu	His	Glu		
145					150					155					160		
Thr	Gln	Pro	Pro	Ser	Val	Arg	Ile	Ser	Ala	Val	Arg	Ala	Ile	Trp	Gly		
				165					170					175			
Tyr	Cys	Asp	Gln	Leu	Lys	Val	Ser	Glu	Ser	Thr	His	Val	Leu	Gln	Pro		
			180					185					190				
Phe	Leu	Pro	Ser	Ile	Leu	Asp	Gly	Leu	Ile	His	Leu	Ala	Ala	Gln	Phe		
		195					200					205					
Ser	Ser	Glu	Val	Leu	Asn	Leu	Val	Met	Glu	Thr	Leu	Cys	Ile	Val	Cys		
	210					215					220						
Thr	Val	Asp	Pro	Glu	Phe	Thr	Ala	Ser	Met	Glu	Ser	Lys	Ile	Cys	Pro		
225					230					235					240		
Phe	Thr	Ile	Ala	Ile	Phe	Leu	Lys	Tyr	Ser	Asn	Asp	Pro	Val	Val	Ala		
				245					250					255			
Ser	Leu	Ala	Gln	Asp	Ile	Phe	Lys	Glu	Leu	Ser	Gln	Ile	Glu	Ala	Cys		
			260					265					270				
Gln	Gly	Pro	Met	Gln	Met	Arg	Leu	Ile	Pro	Thr	Leu	Val	Ser	Ile	Met		
		275					280					285					
Gln	Ala	Pro	Ala	Asp	Lys	Ile	Pro	Ala	Gly	Leu	Cys	Ala	Thr	Ala	Ile		
	290					295					300						
Asp	Ile	Leu	Thr	Thr	Val	Val	Arg	Asn	Thr	Lys	Pro	Pro	Leu	Ser	Gln		
305					310					315					320		
Leu	Leu	Ile	Cys	Gln	Ala	Phe	Pro	Ala	Val	Ala	Gln	Cys	Thr	Leu	His		
				325					330					335			
Thr	Asp	Asp	Asn	Ala	Thr	Met	Gln	Asn	Gly	Gly	Glu	Cys	Leu	Arg	Ala		
			340					345					350				
Tyr	Val	Ser	Val	Thr	Leu	Glu	Gln	Val	Ala	Gln	Trp	His	Asp	Glu	Gln		
		355					360					365					
Gly	His	Asn	Gly	Leu	Trp	Tyr	Val	Met	Gln	Val	Val	Ser	Gln	Leu	Leu		
	370					375					380						
Asp	Pro	Arg	Thr	Ser	Glu	Phe	Thr	Ala	Ala	Phe	Val	Gly	Arg	Leu	Val		
385					390					395					400		
Ser	Thr	Leu	Ile	Ser	Lys	Ala	Gly	Arg	Glu	Leu	Gly	Glu	Asn	Leu	Asp		

00629469.072800





003270" 6946960

```

acatcaaaga attcatactg gagagaagcc ttacaagtgt catgaatgtg gcaagctctt 360
caatcgaatt tcactccttg cacgacatca gagaatacat actggagaga aaccttacia 420
atgtcatgag tgtggcaaag tcttcaactca aaattctcac cttgcaaate atcacagaat 480
ccacactgga gagaaacctt acaaattgtaa tgagtgtggc aaggtcttca acagaaatgc 540
acaccttgca cgacatcaga aaattcatag tggagagaaa cttacaaat gtaaggaaatg 600
tggcaaagca ttttcagggg gttcaggcct tactgtctcat cttgtaattc acactggaga 660
gaaactttac aaatgtaata aatgcggcaa ggtcttcaat cgaaatgcac accttaccag 720
acatcaaaga aaccatactg gagagaaacc ttatgaatgt aaagaatgtg gcaaggctctt 780
caggcacaag ttttgtctaa ccaatcatca tagaatgcac acgggagagc aaccttacia 840
atgtaatgaa tttggggaggc cgaggcgggt ggatcatgag gtcaggagat cgagaccatc 900
ctggctaaca aggtgaaacc ccactctctac taaaaataca aaaaattagc cgggcgcgggt 960
ggcgggcgcgc tgtagtccca gctactcggg aggtctgaggc aggagaatgg cgtgaacccg 1020
ggaagcggag cttgcagtga gccgagattg cgccactgca gtccgcagtc cggcctgggc 1080
gacagagcga gactccgtct caaaaaaaaaa aaacaaaca aacaaacaaa aaaaaacaaa 1140
tgtaatgaat gtggcaaagt cttcagttac aattcacacc ttgcacaaca tcagagaata 1200
catactggag agaaacctta caaatgcagt gactgtggca aggtatttag tcgacttccg 1260
tgccttacac gacatcaaag agttcacact ggagagagac cttacaaatg taatgaatgt 1320
ggcaaagcat ttagagactg ttcaggcctt actgccatc tactaattca cactggagag 1380
aaaccttaca aatgtaaaga atgtgccaag gtcttcaggc atagattatc cctaagcaat 1440
catcagagat ttcataccgg agagaaacct tacagatgtg atgaatgttg cagggaacttc 1500
actcgaaatt caaaccttgc aaatcatcac agaattcata ctggagagaa accttaciaa 1560
tgcagtgaat gtcacaaaag ctttagtcac aattcacacc ttgcacgaca taggcaaatt 1620
catactggag agaagtctta caaatgcaat gaatgtggca aggtcttcag ccacaagtta 1680
tacctaaaaa aacatgagag aattcatact ggggagaaac cgtacagatg tcatgaatgt 1740
ggtaaggact tcactcgaaa ttcaaacctg gcaaatcatc acagaatcca tactggagag 1800
aaaccgtaca gatgaaatgt gtgtggtaag atcttttagta ataattcaca cttgcacag 1860
catgagagaa ttcattcatg agagagttct taaaactga gtatggcaaa ctcttcagtc 1920
taagtcttag cattaatcaa catcagagat tccatactaa agagaaatca tagcaatgta 1980
tgtgaatcag gtctcttgag gcctgccaaa tgactagata tcaaaacata catcttgat 2040
gaaaccatac agatggatta tgtatgctga ggctattatt caaggaccat tactatggaa 2100
catgataaga tttacacaag cgataattca gtctctagtt ctccaatatt tatgatactg 2160
catgctgcag aaaagtcaca gctccaaata cgttgaatct catgacgca tgcagtcga 2220
aggccaagg gcatgtggaa atggtcagtt atattcaggc aattaaaaaa cctaattat 2279

```

<210> 11485  
 <211> 1929  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (14).. (427)

<400> 11485  
 ccttccggct accatggcga ccaggcgcct tggggtcggg gagacgctgg gggccctcaa 60  
 cgcggccctg gggccaggcg gtccggtgtg gaccaaggag acgcgcaccc gccacctgcg 120  
 ttcccagagac tttctggcac cgcaccgcgc gctgcaggcg cgcttcgatg acggccagggt 180

008270" 69462960

```

tccggagcat ttgctccatg cctcgcctg cctgcagggc cccggtgtgg ccccgtgtgt 240
gcgctgcgcg ccgacccccg cgggtctgtc tctccaactg cagcgggtccg ccgtcttcga 300
gcgcgtcctc agcgccgtgg ccgcctatgc cagccccgco tgcctgcct cgctgggcca 360
gcgcgtctta ctacactgcc cagcactgcg cagctcccco tgcgcgtca cggggtgtgc 420
gtgcgcctag tgccagctgt ggggatccg cacatgctga ccttcctgca gcaactgcgg 480
gtggactggc ccgctgcctc ggagagagct tctcccaca cctgaggag ccacgccctt 540
gaagaactta cctctgctaa tgacgggagg aactgttccc ctggcatcct aggcagactg 600
tgtctgaagg agctgggtga agaacagggc cgcacagctg gctatgacct caacctggac 660
aactgtctgg tgactgagga tctcctctct gtgctggctg agctgcaaga ggctctatgg 720
cattggcccc aggcagacca cccaggcctg gttagtact cccagccctg taggttctcc 780
caaaccaagt atactgtact tccacagtta tgattgtcct ccttaggct ggggcctcag 840
atactgttac aggcggctgc ctggttgtac atgttgttag ctgtgaggag gattccagc 900
aacagaagtt ggacctgctt tggcggaagt tggttgacaa ggtccactc agacagaagc 960
acctcatctg tggccctgtg aaagttagct gtgcacctgg cactctgatg actgccctg 1020
agtactacga gttccggcat acccagggtg gcaaggcctc agcactgaag catggtgggg 1080
atctggcaca agaccagcc tggacagaga tctttggtgt tctctctgtg gccaccatca 1140
agtttgagat gctgagcaca gcccacaga gtcagctctt cctggctctg gctgacagca 1200
gtatctccac gaagggcaca aagagtggca ctttgtcat gtataattgt gccgctcttg 1260
ccacactctt tgagagttac aagtgtagta tggaacaagg tctgtacccc acttttcctc 1320
ctgtgagcag tctggacttc tcaactgtac atgatgagg gagtgccct cctggtagct 1380
ggcacaagga ggctggact tcccctccca gcacctttc cccaacagg gtgagtgtt 1440
gttgcctctc aacagtatcc tcccctttcc ggatctgctg agcgggacag cagtgtgtga 1500
ctgcacagcc ccggggctcc acattgctgt acgcacagag atggtgaggc atagacaacc 1560
aggacactct aactctatt ctttattctg gcctggggca caagagcaaa gagatggggc 1620
agtactcag tctctgtctc tagatatgca agttcctggt acagctcagc atggatttca 1680
gtcctacta caaccgggta cacatcctgg gggagcctcg accacacctc ttgtgtcaaa 1740
tgttcgtccg cctgcagctt ctgagagctg tgcgtgagg gctccatact ggctgggcta 1800
tgctgggtct cctccactg agccacattt aaggccacag aggcctcaat acctgggaat 1860
gttcacaaag tcatcaactg gaaaaaagc aaaaaccac ggccaaaata aattggtact 1920
gtttgttac                                     1929

```

<210> 11486  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 11486  
 Met Ala Thr Arg Arg Leu Gly Val Gly Glu Thr Leu Gly Ala Leu Asn  
 1 5 10 15  
 Ala Ala Leu Gly Pro Gly Gly Pro Val Trp Thr Lys Glu Thr Arg Thr  
 20 25 30  
 Arg His Leu Arg Ser Arg Asp Phe Leu Ala Pro His Arg Ala Leu Gln  
 35 40 45  
 Ala Arg Phe Asp Asp Gly Gln Val Pro Glu His Leu Leu His Ala Leu  
 50 55 60  
 Ala Cys Leu Gln Gly Pro Gly Val Ala Pro Val Leu Arg Cys Ala Pro  
 65 70 75 80

-4964/13211-

Thr Pro Ala Gly Leu Ser Leu Gln Leu Gln Arg Ser Ala Val Phe Glu  
                    85                    90                    95  
Arg Val Leu Ser Ala Val Ala Ala Tyr Ala Thr Pro Ala Ser Pro Ala  
                    100                    105                    110  
Ser Leu Gly Gln Arg Val Leu Leu His Cys Pro Ala Leu Arg Ser Ser  
                    115                    120                    125  
Pro Cys Ala Leu Thr Gly Cys Ala Cys Ala  
                    130                    135

<210> 11487  
<211> 2961  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1831).. (2565)

<400> 11487  
aatatttata tttcctctgt cttttaaaac tgaacaccga ggtgggtttt gtggtgggtg 60  
gtgaacggac aggtttgggc ctgatcccc caccgcagcc tagcaccac aggtgggggt 120  
gccccctctg ctgatgcgcc tcctccctca gcaccatgga cctgctggac tggggcagcc 180  
tcatcgacag caggaccaag ctgtccaagc acttggtagt ccccaacgca caggtaacac 240  
ctccgctcct cagtgaggcc cagctcagca gggcgctgog ctaagaaggg aattcagcct 300  
gccacgtgtg tctcttgttg cctaccctgg gaacttaaca tgaccaaaat cactgcacac 360  
tatggcccca cagacccctt gtggtccagg gggaagaaga caagcccact agtgtccaca 420  
gagtgttgg cgggacagag acccacgcgg agccttaaga caccacaagg agaggggggtc 480  
tgggggcctt ccccaagtca tctgtcttgt gcatcaggtc accccaaact tcagaggcct 540  
gaaacggcag cagccactct gcttctgcct catggttctg gggttgacag ggctcagctg 600  
ggcagtcctc ccctgggggtc tcctgggtag ctgtactcac agagtgggtg cgctgggacc 660  
tgggggaggg acccattcac atgtctggga gttggtgctg gctgtggctt gggctttttc 720  
ccaacatggc agctgggctc taagggccag tgtccctga gacgtgagag ccaggcagaa 780  
gctgggtgac cttttcctgc ctgcctcag aagtcacacg gtgtcttttc tggcaagttc 840  
tgtttgtag aagcatgtca ccaggccagc ctgtatacag cggggagagg aatgagactc 900  
atctgcctgt gggagggggg ccaggacct ggcagactgc ttgaaaccac agcttaaaact 960  
gggattcaaa gaaagaacag aagcaccttc agaaaacatc ctgcagaggc agctttccat 1020  
gacacatcta gccccagtcc actaagggcc cagcctcaaa cttagagccc ccgaccaga 1080  
gcctcggggc gcagtgcgta cagtgtggct gtgcaccaag gccaccagct gttggagact 1140  
ttagcatggt gtagcaaggg atagagtgg actgtttgtg ccagtgagg caaggctgct 1200  
ggggccagca aaggggtgag cgggaggccc tgcgggatgg gtccccacgg cctctgagca 1260  
ccagcaactt gaaggcctca tcctggtggt tgccctggtc cctggctacg tgtcagcacg 1320  
tgctgcacaa ctgccctgtc tgctgtagc caggggtctt cctcctgggc cctctgcctg 1380  
ctccgggtgg agcccttctg tttgacgatt gggtgatcag tgttcaactg ttcaatgtca 1440  
catgggagtt gcagggggct ctcccacaac ggtggggcct ctgtgggaac tggggagtac 1500  
acacttcgga gtgcaggcct ggactgagcc tggggccac tgacatgggc actgagctcc 1560  
ctcgtgttac ccctaggccc cgcatagggc agtgcactgg ctgcgttggg ggttcagggg 1620  
cactgtgctg cttgtccagg tggccctccc tcccagccct gcacggacgg gtgagagggt 1680

09629469.072800

-4965/13211-

```

tcctgtgggc tgggaatact gagagaggtt tagcctgggc ctcaggggtgg cactttcccg 1740
cccttgctgt ggcctgaccg cgtgttgac cccagacag gacagctgga gcccctgctg 1800
tcccggttca ctgaggagga ggagctacag atgaccagga tgctacagcg gatggatgtc 1860
ctggccaaga aagccacaga gatgggcgtg cggctgatgg tggatgccga gcagacctac 1920
ttccagccgg ccatcagccg cctgacgctg gagatgcagc ggaagttcaa tgtggagaag 1980
ccgctcatct tcaacacata ccagtgcctac ctcaaggatg cctatgacaa tgtgacctg 2040
gacgtggagc tggctcgccg tgagggctgg tgttttgggg ccaagctggt gcggggcgca 2100
tacctggccc aggagcgagc ccgtgcggca gagatcggct atgaggacct catcaacccc 2160
acgtacgagg ccaccaacgc catgtaccac aggtgcctgg actacgtgtt ggaggagctg 2220
aagcacaacg ccaaggccaa ggtgatgggt gcctcccaca atgaggacac agtgcgcttc 2280
gcactgcgcg ggatggagga gctgggcctg catcctgctg accaccaggt gtactttgga 2340
cagctgctag gcatgtgtga ccagatcagc ttcccgcctg gccaggccgg ctaccccgctg 2400
tacaagtacg tgccctatgg ccccgctgat gaggtgctgc cctacttgtc ccgccgtgcc 2460
ctggagaaca gcagcctcat gaagggcacc catcggggagc ggcagttgct gtggctggag 2520
ctcttgaggc ggctccgaac tggcaacctc ttccatcgcc ctgcctagca cccgccagca 2580
caccctcagc ctccagcacc ccccgccccg gccaggcca tcaccacagc tgcagccaac 2640
cccctcctca cacagattca ccttttttca cccacactt gcagagctgc tggagggtgag 2700
gtcagggtgc tcccagccct gccagagta tgggcaacta ggtgtggggc gaacctgata 2760
cctgcctggg acagccactg gaaacttttg ggaactctcc tcgaatgtgt gggcccaagg 2820
cccccacctc tgtgaccccc atgtccttgg acctagagga ttgtccacct tctgccaaagg 2880
ccagcccaca cagcccgagc cccttgggga gcagtggccg ggctggggag gcctgcctgg 2940
tcgataaacc actgttcctg c 2961

```

<210> 11488  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 11488  
 Met Thr Arg Met Leu Gln Arg Met Asp Val Leu Ala Lys Lys Ala Thr  
 1 5 10 15  
 Glu Met Gly Val Arg Leu Met Val Asp Ala Glu Gln Thr Tyr Phe Gln  
 20 25 30  
 Pro Ala Ile Ser Arg Leu Thr Leu Glu Met Gln Arg Lys Phe Asn Val  
 35 40 45  
 Glu Lys Pro Leu Ile Phe Asn Thr Tyr Gln Cys Tyr Leu Lys Asp Ala  
 50 55 60  
 Tyr Asp Asn Val Thr Leu Asp Val Glu Leu Ala Arg Arg Glu Gly Trp  
 65 70 75 80  
 Cys Phe Gly Ala Lys Leu Val Arg Gly Ala Tyr Leu Ala Gln Glu Arg  
 85 90 95  
 Ala Arg Ala Ala Glu Ile Gly Tyr Glu Asp Pro Ile Asn Pro Thr Tyr  
 100 105 110  
 Glu Ala Thr Asn Ala Met Tyr His Arg Cys Leu Asp Tyr Val Leu Glu  
 115 120 125  
 Glu Leu Lys His Asn Ala Lys Ala Lys Val Met Val Ala Ser His Asn  
 130 135 140



```

aatgctgaaa atgatgaaga tggatgggaa agtaccagtc tcagtgagga ggaggatgct 1380
gatgggtgaat ggattgatgt gcaacactct tccgatgaag aacagcaaga aatctccaag 1440
aagctgaaca gcatgcccac ggaggagcgg aaggccaaag ctgcagccat cagcactagc 1500
cgagttttta ctcaggaaga cttccagaaa atccgcatgg cccaaatgag aaaagaactt 1560
gatgctgccc ccgggaaatg ccagaagagg aaatacattg aaatagacag tgatgaagag 1620
cccaggggtg aattactttc tcttcgggac attgaacgcc ttcataaaaa gccaaagtct 1680
gacaaagaga caagactagc aactgcaatg gctggaaaga cagaccgaaa agaatttgtg 1740
aggaagaaaa ccaaaacaaa tccattttcc agttcgacaa ataaagagaa gaaaaaacag 1800
aagaacttta tgatgatgcg gtatagccag aatgtccggt caaaaaataa gcgttccttc 1860
cgagaaaaac agttggcact acgagatgca cttttgaaaa agagaaaaag aatgaagtaa 1920
cttcctggca agttttccat tcctagaaga atgctaagtt tgtgtccttg ctctgaaaat 1980
tggtaaatca agcatgtttg tttacattaa aaagtccaga cacactgtat tgtgaaaact 2040
gctgaacatg tggcagcaat tttgtgtttt tattttggag acggctaata gtaggaatgt 2100
taatgtaaat agtgggtggt atgtaaaatc atttcattta tcattcatgc aaaaaaagt 2160
atgtattgag tgcctattca ttgtcactgt agatgcaaaa cgaatgagct gtaacccctt 2220
cactcaaggc attgacagct tagctgtgag ggtggacaca catatgtgta tttacagtgc 2280
agtgtaaata gttctgtagt agaggttaac tccatatttc tgtgagggtc ctgaggcctt 2340
atggactaac tctgtgagga taggagttat atattcctat aagacaaaac aaacaggac 2400
aatgttacaa gagtaagagg ttcttacttg tacataggct ttctgtctga aaacaggccc 2460
ctgctgtaca gattttgggt acataattta gotcttttag tcagtccaag agatttaagt 2520
gacccccccc cccccctgt tttttttgtt tttgtttttg ttttgaatgc catgtaaagg 2580
ctttttgggt aagacctcac ttttaaaact gccttaagta taaatagtac ctttgaata 2640
tatttagttc atcatttgag ctgccttcac actggtttcc tcagccttcc ttcagcctgt 2700
aatattttca gccactgtt taccttgtct caataaaagg tttctaatagc caaat 2755

```

<210> 11490  
 <211> 627  
 <212> PRT  
 <213> Homo sapiens

<400> 11490

Met	Phe	Met	Ala	Gln	Ile	Ser	His	Cys	Tyr	Pro	Glu	Tyr	Leu	Ser	Asn
1				5					10					15	
Phe	Pro	Gln	Glu	Val	Lys	Asp	Leu	Leu	Ser	Cys	Asn	His	Thr	Val	Leu
		20						25					30		
Asp	Pro	Asp	Leu	Arg	Met	Thr	Phe	Cys	Lys	Ala	Leu	Ile	Leu	Leu	Arg
		35					40					45			
Asn	Lys	Asn	Leu	Ile	Asn	Pro	Ser	Ser	Leu	Leu	Glu	Leu	Phe	Phe	Glu
		50				55					60				
Leu	Phe	Arg	Cys	His	Asp	Lys	Leu	Leu	Arg	Lys	Thr	Leu	Tyr	Thr	His
		65			70					75					80
Ile	Val	Thr	Asp	Ile	Lys	Asn	Ile	Asn	Ala	Lys	His	Lys	Asn	Asn	Lys
			85						90					95	
Val	Asn	Val	Val	Leu	Gln	Asn	Phe	Met	Tyr	Thr	Met	Leu	Arg	Asp	Ser
			100					105					110		
Asn	Ala	Thr	Ala	Ala	Lys	Met	Ser	Leu	Asp	Val	Met	Ile	Glu	Leu	Tyr
		115					120					125			

Arg	Arg	Asn	Ile	Trp	Asn	Asp	Ala	Lys	Thr	Val	Asn	Val	Ile	Thr	Thr
130					135					140					
Ala	Cys	Phe	Ser	Lys	Val	Thr	Lys	Ile	Leu	Val	Ala	Ala	Leu	Thr	Phe
145					150					155					160
Phe	Leu	Gly	Lys	Asp	Glu	Asp	Glu	Lys	Gln	Asp	Ser	Asp	Ser	Glu	Ser
				165					170					175	
Glu	Asp	Asp	Gly	Pro	Thr	Ala	Arg	Asp	Leu	Leu	Val	Gln	Tyr	Ala	Thr
			180					185					190		
Gly	Lys	Lys	Ser	Ser	Lys	Asn	Lys	Lys	Lys	Leu	Glu	Lys	Ala	Met	Lys
		195					200					205			
Val	Leu	Lys	Lys	Gln	Lys	Lys	Lys	Lys	Pro	Glu	Val	Phe	Asn	Phe	
210					215					220					
Ser	Ala	Ile	Leu	Leu	Ile	His	Asp	Pro	Gln	Asp	Phe	Ala	Glu	Lys	Leu
225					230					235					240
Leu	Lys	Gln	Leu	Glu	Cys	Cys	Lys	Glu	Arg	Phe	Glu	Val	Lys	Met	Met
				245					250					255	
Leu	Met	Asn	Leu	Ile	Ser	Arg	Leu	Val	Gly	Ile	His	Glu	Leu	Phe	Leu
			260					265					270		
Phe	Asn	Phe	Tyr	Pro	Phe	Leu	Gln	Arg	Phe	Leu	Gln	Pro	His	Gln	Arg
		275					280					285			
Glu	Val	Thr	Lys	Ile	Leu	Leu	Phe	Ala	Ala	Gln	Ala	Ser	His	His	Leu
290						295					300				
Val	Pro	Pro	Glu	Ile	Ile	Gln	Ser	Leu	Leu	Met	Thr	Val	Ala	Asn	Asn
305					310					315					320
Phe	Val	Thr	Asp	Lys	Asn	Ser	Gly	Glu	Val	Met	Thr	Val	Gly	Ile	Asn
				325					330					335	
Ala	Ile	Lys	Glu	Ile	Thr	Ala	Arg	Cys	Pro	Leu	Ala	Met	Thr	Glu	Glu
			340					345					350		
Leu	Leu	Gln	Asp	Leu	Ala	Gln	Tyr	Lys	Thr	His	Lys	Asp	Lys	Asn	Val
		355					360					365			
Met	Met	Ser	Ala	Arg	Thr	Leu	Ile	His	Leu	Phe	Arg	Thr	Leu	Asn	Pro
370						375					380				
Gln	Met	Leu	Gln	Lys	Lys	Phe	Arg	Gly	Lys	Pro	Thr	Glu	Ala	Ser	Ile
385				390						395					400
Glu	Ala	Arg	Val	Gln	Glu	Tyr	Gly	Glu	Leu	Asp	Ala	Lys	Asp	Tyr	Ile
				405					410					415	
Pro	Gly	Ala	Glu	Val	Leu	Glu	Val	Glu	Lys	Glu	Glu	Asn	Ala	Glu	Asn
			420					425					430		
Asp	Glu	Asp	Gly	Trp	Glu	Ser	Thr	Ser	Leu	Ser	Glu	Glu	Glu	Asp	Ala
		435					440						445		
Asp	Gly	Glu	Trp	Ile	Asp	Val	Gln	His	Ser	Ser	Asp	Glu	Glu	Gln	Gln
450						455					460				
Glu	Ile	Ser	Lys	Lys	Leu	Asn	Ser	Met	Pro	Met	Glu	Glu	Arg	Lys	Ala
465					470					475					480
Lys	Ala	Ala	Ala	Ile	Ser	Thr	Ser	Arg	Val	Leu	Thr	Gln	Glu	Asp	Phe
				485					490					495	
Gln	Lys	Ile	Arg	Met	Ala	Gln	Met	Arg	Lys	Glu	Leu	Asp	Ala	Ala	Pro
			500					505					510		

008220 69462960

-4969/13211-

Gly Lys Cys Gln Lys Arg Lys Tyr Ile Glu Ile Asp Ser Asp Glu Glu  
515 520 525  
Pro Arg Gly Glu Leu Leu Ser Leu Arg Asp Ile Glu Arg Leu His Lys  
530 535 540  
Lys Pro Lys Ser Asp Lys Glu Thr Arg Leu Ala Thr Ala Met Ala Gly  
545 550 555 560  
Lys Thr Asp Arg Lys Glu Phe Val Arg Lys Lys Thr Lys Thr Asn Pro  
565 570 575  
Phe Ser Ser Ser Thr Asn Lys Glu Lys Lys Lys Gln Lys Asn Phe Met  
580 585 590  
Met Met Arg Tyr Ser Gln Asn Val Arg Ser Lys Asn Lys Arg Ser Phe  
595 600 605  
Arg Glu Lys Gln Leu Ala Leu Arg Asp Ala Leu Leu Lys Lys Arg Lys  
610 615 620  
Arg Met Lys  
625

<210> 11491  
<211> 2394  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (15).. (695)

<400> 11491  
ctcagtctgc ggccatgggg gcgtccgcgc ggctgctgcg agcgggtgatc atggggggccc 60  
cgggctcggg caagggcacc gtgtcgtcgc gcatcactac acacttcgag ctgaagcacc 120  
tctccagcgg ggacctgctc cgggacaaca tgctgcgggg cacagaaatt ggcgtgttag 180  
ccaaggcttt cattgaccaa gggaaactca tcccagatga tgtcatgact cggctggccc 240  
ttcatgagct gaaaaatctc acccagtata gctggctgtt ggatggtttt ccaaggacac 300  
ttccacaggc agaagcccta gatagagctt atcagatcga cacagtgatt aacctgaatg 360  
tgccctttga ggtcattaaa caacgcctta ctgctcgtcg gattcatccc gccagtggcc 420  
gagtctataa cattgaattc aaccttccca aaactgtggg cattgatgac ctgactgggg 480  
agcctctcat tcagcgtgag gatgataaac cagagacggg tatcaagaga cttaaaggctt 540  
atgaagacca aacaaagcca gtcttggaat attaccagaa aaaaggggtg ctggaaacat 600  
tctccggaac agaaaccaac aagatttggc cctatgtata tgctttccta caaactaaag 660  
ttccacaaaag aagccagaaa gcttcagtta ctccatgagg agaaatgtgt gtaactatta 720  
atagtaagat gggcaaacct cctagtcctt gcatttagaa gotgottttc ctaagacttc 780  
tagtatgtat gaattctttg aaaattatat tacttttatt totactgatt ttatttttga 840  
tactaaggat gtgccaaatg attcggatac taagatgcat cgtttgaaat catctagtgt 900  
gttgatatgca gttatcctca aaaacatcag cgatgtctga acctttaaaa catctgttag 960  
agcaaaaatta aaagagcatt tggtagtaat ctaacttttt gttcagttaa taagtgggtg 1020  
ataaagtttc catatttttc tggaagagtt aaaaaagtt acatgtcatt tggagaaaaa 1080  
acgtaatcag aaatttgtgc atagattgat gccaaaaaag acatttccag cattgtggaa 1140  
catggtgaga cactatataa aattccagaa agaaagcaac tggattttaca gatttattgt 1200

009620469.072800



gagacacaaa ttcactgctg cccttacact aagaaatgta tatgttaacc atatatgctg 1260  
tatttatttt gtcgttaagc atactttcag tttactcaga attttcaatt tgctataaag 1320  
atgtatcaat tagcatatag aaaaatatta ctttaagatg acttgtttcc tttgaaaata 1380  
cctgtgtact gagggttatg atttgtgtca aaaattgaca taagtgcctt tacaagcacc 1440  
aaagttgaat gaattttcaa caaaatgtaa ttaaagtota tgttttcagt tatgactcag 1500  
gttaagaaat gtgttttagg atctacttgc tggtttttct ttttgcacca aatgtgtgat 1560  
ctgccctgat aaataacaag ttatagtacc atctcccccg ccaataaaaa agagaagaaa 1620  
aaagagaaac ccgtggcact atgtaaataa agtaagcata ctttgttgtt agtaaataga 1680  
tgaggcatgc ctgggaaatg ctcccttggc ataaatagca atcaattata attagtaaac 1740  
aggtgtacca ataaaaagaa tttacatgat aggttaacaa ggaccaggaa agtgagtttc 1800  
ctgaaggagt tctttgttcc tgatcaaaga aattgatacc tgttagcatt cactgccacc 1860  
atattttaag gagaaagaac tctattgggtg tctgtgagc agccatttaa aaattggaat 1920  
ctaaaggatg gttgctgatg tactgtgtgg tctggtagaa gtgggggaaat atgagagatg 1980  
gaggaanaac ttgattatgt cttccatggc atattttact ttactttact tctgtccaaa 2040  
tcaaagtaaa caagccgtct tacaagtcgt tattgccttt aaaaatctgt tccgtttttt 2100  
tcccaggtac ttaaaataca agtgccagta agtgggtctt atgtgttttg ggggggaaat 2160  
tttatttccc ttttcttctg atattttaaaa aattcatcga tctttcaaga tgaaccaagg 2220  
ttttttaaaa gaaatatagg aaacacttca ttctttataa aactttctat aatgccttat 2280  
ttgaatgta atcttatgtg ctttctaaaa aatgttgtga aataccaaaac ttatggatta 2340  
tcactaggtt atcaagcata tattagtctt tatcagaata aaatgaaatt tcat 2394

<210> 11492  
<211> 227  
<212> PRT  
<213> Homo sapiens

<400> 11492  
Met Gly Ala Ser Ala Arg Leu Leu Arg Ala Val Ile Met Gly Ala Pro  
1 5 10 15  
Gly Ser Gly Lys Gly Thr Val Ser Ser Arg Ile Thr Thr His Phe Glu  
20 25 30  
Leu Lys His Leu Ser Ser Gly Asp Leu Leu Arg Asp Asn Met Leu Arg  
35 40 45  
Gly Thr Glu Ile Gly Val Leu Ala Lys Ala Phe Ile Asp Gln Gly Lys  
50 55 60  
Leu Ile Pro Asp Asp Val Met Thr Arg Leu Ala Leu His Glu Leu Lys  
65 70 75 80  
Asn Leu Thr Gln Tyr Ser Trp Leu Leu Asp Gly Phe Pro Arg Thr Leu  
85 90 95  
Pro Gln Ala Glu Ala Leu Asp Arg Ala Tyr Gln Ile Asp Thr Val Ile  
100 105 110  
Asn Leu Asn Val Pro Phe Glu Val Ile Lys Gln Arg Leu Thr Ala Arg  
115 120 125  
Trp Ile His Pro Ala Ser Gly Arg Val Tyr Asn Ile Glu Phe Asn Pro  
130 135 140  
Pro Lys Thr Val Gly Ile Asp Asp Leu Thr Gly Glu Pro Leu Ile Gln  
145 150 155 160

008220-69462960

-4971/13211-

Arg Glu Asp Asp Lys Pro Glu Thr Val Ile Lys Arg Leu Lys Ala Tyr  
                  165                  170                  175  
Glu Asp Gln Thr Lys Pro Val Leu Glu Tyr Tyr Gln Lys Lys Gly Val  
                  180                  185                  190  
Leu Glu Thr Phe Ser Gly Thr Glu Thr Asn Lys Ile Trp Pro Tyr Val  
                  195                  200                  205  
Tyr Ala Phe Leu Gln Thr Lys Val Pro Gln Arg Ser Gln Lys Ala Ser  
                  210                  215                  220  
Val Thr Pro  
225

<210> 11493  
<211> 2349  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (241).. (2262)

<400> 11493  
gctcttatcg gttcccatcc cagttgttga tottatgcaa gacgctgcac gacccccgcgc 60  
ccgcttgtcg ccacggcact tgaggcagcc ggagatactc tgagttactc ggagccccgac 120  
gcctgaggggt gagatgaacg cgctggcctc cctaaccgtc cggacctgtg atcgcttctg 180  
gcagaccgaa ccggcgctcc tgcccccggg gtgacgcgca gccccagcc gccagacac 240  
atggccccag gccaaagcacc ccatcaggct accccgtgga gggatgcca ccctttcttc 300  
ctcctgtccc cagtgtggtg cctcctcagc cgcgcctgga gccgcctgag gggcctggga 360  
cctctagagc cctggctggt ggaagcagta aaaggagcag ctctggtaga agctggcctg 420  
gagggagaag ctaggactcc tctggcaatc cccataccc cttggggcag acgccctgga 480  
gaggaggctg aagacagtgg aggccctgga gaggacagag aaacactggg gctgaaaacc 540  
agcagttccc ttctgaagc ctggggactt ttggatgatg atgatggcat gtatggtgag 600  
cgagaggcaa ccagtgtccc tagagggcag ggaagtcaat ttgcagatgg ccagcgtgct 660  
cccctgtctc ccagccttct gataaggaca ctgcaagggt ctgataagaa ccagggggag 720  
gagaaagccg aggaagaggg agttgtctgaa gaggagggag ttaacaagtt ctcttatcca 780  
ccatcacacc gggagtgttg tccagccgtg gaggaggagg acgatgaaga agctgtaaag 840  
aaagaagctc acagaacctc tacttctgcc ttgtctccag gatccaagcc cagcacttgg 900  
gtgtcttgcc caggggagga agagaatcaa gccacggagg ataaaaaagac agaaagaagt 960  
aaaggagcca ggaagacctc cgtgtccccc cgatcttcag gctccgaccc caggtcctgg 1020  
gagtatcggt caggagaggc gtccgaggag aaggaggaaa aggcacacga agaaactggg 1080  
aaaggagaag ctgccccagg gccgcaatcc tcagccccag ccagagggcc ccagctcaag 1140  
tcctggtggt gccaaaccag tgatgaagag gagagtgagg tcaagccttt gggggcagct 1200  
gagaaggatg gagaagctga gtgtcctccc tgcatcccc caccaagtgc ctctctgaag 1260  
gcctgggtgt attggccagg agaggacaca gaggaagagg aagatgagga agaagatgag 1320  
gacagtgact ctggatcaga tgaggaagag ggagaagctg aggcttctc ttccactcct 1380  
gtacaggtg tcttcttgaa gtcctgggtc tatcagccag gagaggacac agaggaggag 1440  
gaagatgagg acagtgatac aggatcagcc gaggatgaaa gagaagctga gacttctgct 1500  
tccacacccc ctgcaagtgc tttcttgaaag gcctgggtgt atcgccagg agaggacacg 1560

09629469.072800

```

gaggaggagg aagatgagga tgtggatagt gaggataagg aagatgattc agaagcagcc 1620
ttaggagaag ctgagtcaga cccacatccc tcccacccgg accagagtgc ccacttcagg 1680
ggctggggat atcgacctgg aaaagagaca gaggaagagg aagctgctga ggactgggga 1740
gaagctgagc cctgccccct ccgagtggcc atctatgtac ctggagagaa gccaccgcct 1800
ccctggggctc ctccctaggct gcccctccga ctgcaaaggc ggotcaagcg cccagaaacc 1860
cctactcatg atccggaccc tgagactccc ctaaaggcca gaaagggtgcg cttctccgag 1920
aaggctcactg tccatttcct ggctgtctgg gcaggggccgg cccaggccgc cggccagggc 1980
ccctggggagc agcttgctcg ggatcgcagc cgcttcgcac gccgcatcgc ccaggcccag 2040
gaggagctga gccctgcct caccctgct gcccgggcca gagcctgggc acgcctcagg 2100
aaccacactt tagcccccct cctgccccct acccagacct tgccttcctc ctctgtccct 2160
tcgtccccag tccagaccac gcccttgagc caagctgtgg ctacaccttc ccgtctctct 2220
gctgctgcag cggctgcctt ggacctcagt gggaggcgtg gctgagacca actggtttgc 2280
ctataattta ttaactatct attttttcta agtgtgggtt tatataagga ataaagcctt 2340
ttgatttgt
2349

```

<210> 11494  
 <211> 674  
 <212> PRT  
 <213> Homo sapiens

<400> 11494

Met	Ala	Pro	Gly	Gln	Ala	Pro	His	Gln	Ala	Thr	Pro	Trp	Arg	Asp	Ala	1	5	10	15
His	Pro	Phe	Phe	Leu	Leu	Ser	Pro	Val	Met	Gly	Leu	Leu	Ser	Arg	Ala	20	25	30	
Trp	Ser	Arg	Leu	Arg	Gly	Leu	Gly	Pro	Leu	Glu	Pro	Trp	Leu	Val	Glu	35	40	45	
Ala	Val	Lys	Gly	Ala	Ala	Leu	Val	Glu	Ala	Gly	Leu	Glu	Gly	Glu	Ala	50	55	60	
Arg	Thr	Pro	Leu	Ala	Ile	Pro	His	Thr	Pro	Trp	Gly	Arg	Arg	Pro	Gly	65	70	75	80
Glu	Glu	Ala	Glu	Asp	Ser	Gly	Gly	Pro	Gly	Glu	Asp	Arg	Glu	Thr	Leu	85	90	95	
Gly	Leu	Lys	Thr	Ser	Ser	Ser	Leu	Pro	Glu	Ala	Trp	Gly	Leu	Leu	Asp	100	105	110	
Asp	Asp	Asp	Gly	Met	Tyr	Gly	Glu	Arg	Glu	Ala	Thr	Ser	Val	Pro	Arg	115	120	125	
Gly	Gln	Gly	Ser	Gln	Phe	Ala	Asp	Gly	Gln	Arg	Ala	Pro	Leu	Ser	Pro	130	135	140	
Ser	Leu	Leu	Ile	Arg	Thr	Leu	Gln	Gly	Ser	Asp	Lys	Asn	Pro	Gly	Glu	145	150	155	160
Glu	Lys	Ala	Glu	Glu	Glu	Gly	Val	Ala	Glu	Glu	Glu	Gly	Val	Asn	Lys	165	170	175	
Phe	Ser	Tyr	Pro	Pro	Ser	His	Arg	Glu	Cys	Cys	Pro	Ala	Val	Glu	Glu	180	185	190	
Glu	Asp	Asp	Glu	Glu	Ala	Val	Lys	Lys	Glu	Ala	His	Arg	Thr	Ser	Thr	195	200	205	

000220'69462960

Ser	Ala	Leu	Ser	Pro	Gly	Ser	Lys	Pro	Ser	Thr	Trp	Val	Ser	Cys	Pro
	210					215					220				
Gly	Glu	Glu	Glu	Asn	Gln	Ala	Thr	Glu	Asp	Lys	Arg	Thr	Glu	Arg	Ser
225					230					235					240
Lys	Gly	Ala	Arg	Lys	Thr	Ser	Val	Ser	Pro	Arg	Ser	Ser	Gly	Ser	Asp
				245					250					255	
Pro	Arg	Ser	Trp	Glu	Tyr	Arg	Ser	Gly	Glu	Ala	Ser	Glu	Glu	Lys	Glu
			260					265					270		
Glu	Lys	Ala	His	Glu	Glu	Thr	Gly	Lys	Gly	Glu	Ala	Ala	Pro	Gly	Pro
	275						280					285			
Gln	Ser	Ser	Ala	Pro	Ala	Gln	Arg	Pro	Gln	Leu	Lys	Ser	Trp	Trp	Cys
290						295					300				
Gln	Pro	Ser	Asp	Glu	Glu	Glu	Ser	Glu	Val	Lys	Pro	Leu	Gly	Ala	Ala
305					310					315					320
Glu	Lys	Asp	Gly	Glu	Ala	Glu	Cys	Pro	Pro	Cys	Ile	Pro	Pro	Pro	Ser
				325					330					335	
Ala	Phe	Leu	Lys	Ala	Trp	Val	Tyr	Trp	Pro	Gly	Glu	Asp	Thr	Glu	Glu
			340					345					350		
Glu	Glu	Asp	Glu	Glu	Glu	Asp	Glu	Asp	Ser	Asp	Ser	Gly	Ser	Asp	Glu
		355					360					365			
Glu	Glu	Gly	Glu	Ala	Glu	Ala	Ser	Ser	Ser	Thr	Pro	Ala	Thr	Gly	Val
	370					375					380				
Phe	Leu	Lys	Ser	Trp	Val	Tyr	Gln	Pro	Gly	Glu	Asp	Thr	Glu	Glu	Glu
385					390					395					400
Glu	Asp	Glu	Asp	Ser	Asp	Thr	Gly	Ser	Ala	Glu	Asp	Glu	Arg	Glu	Ala
				405					410					415	
Glu	Thr	Ser	Ala	Ser	Thr	Pro	Pro	Ala	Ser	Ala	Phe	Leu	Lys	Ala	Trp
			420					425					430		
Val	Tyr	Arg	Pro	Gly	Glu	Asp	Thr	Glu	Glu	Glu	Glu	Asp	Glu	Asp	Val
		435				440						445			
Asp	Ser	Glu	Asp	Lys	Glu	Asp	Asp	Ser	Glu	Ala	Ala	Leu	Gly	Glu	Ala
	450					455				460					
Glu	Ser	Asp	Pro	His	Pro	Ser	His	Pro	Asp	Gln	Ser	Ala	His	Phe	Arg
465					470					475					480
Gly	Trp	Gly	Tyr	Arg	Pro	Gly	Lys	Glu	Thr	Glu	Glu	Glu	Glu	Ala	Ala
				485				490						495	
Glu	Asp	Trp	Gly	Glu	Ala	Glu	Pro	Cys	Pro	Phe	Arg	Val	Ala	Ile	Tyr
			500					505					510		
Val	Pro	Gly	Glu	Lys	Pro	Pro	Pro	Pro	Trp	Ala	Pro	Pro	Arg	Leu	Pro
		515					520					525			
Leu	Arg	Leu	Gln	Arg	Arg	Leu	Lys	Arg	Pro	Glu	Thr	Pro	Thr	His	Asp
	530					535					540				
Pro	Asp	Pro	Glu	Thr	Pro	Leu	Lys	Ala	Arg	Lys	Val	Arg	Phe	Ser	Glu
545					550					555					560
Lys	Val	Thr	Val	His	Phe	Leu	Ala	Val	Trp	Ala	Gly	Pro	Ala	Gln	Ala
				565					570					575	
Ala	Arg	Gln	Gly	Pro	Trp	Glu	Gln	Leu	Ala	Arg	Asp	Arg	Ser	Arg	Phe
			580					585					590		

00629469.072800

Ala Arg Arg Ile Ala Gln Ala Gln Glu Glu Leu Ser Pro Cys Leu Thr  
595 600 605  
Pro Ala Ala Arg Ala Arg Ala Trp Ala Arg Leu Arg Asn Pro Pro Leu  
610 615 620  
Ala Pro Ile Pro Ala Leu Thr Gln Thr Leu Pro Ser Ser Ser Val Pro  
625 630 635 640  
Ser Ser Pro Val Gln Thr Thr Pro Leu Ser Gln Ala Val Ala Thr Pro  
645 650 655  
Ser Arg Ser Ser Ala Ala Ala Ala Ala Leu Asp Leu Ser Gly Arg  
660 665 670  
Arg Gly

<210> 11495  
<211> 3086  
<212> DNA  
<213> Homo sapiens

<400> 11495  
taccaatgct gcaggtacat taatgaactc gagatggctc tgtaagcctg actggcaata 60  
acgcacggta ctgttcttga aatacctaata ggcttgaaat tctagtctgt ttgtgaaaga 120  
tgggtactat catgatttcc tcttctattc ctatattctt ttctggattt tttttaataa 180  
ttagtatat aagcattgtt tttattgcag ccatatccac ttacctatct taagatctgt 240  
agctgggatt ttctgacttg taatgagcag ggggattgct ttttcacttt gtgacactct 300  
ttagagcttt aatgcttcac agtatatggc ctgggtctcat ccttgcgtgt tccacttgag 360  
gccctttggg gtcttgcccc attcttgtgt ttataaaatg tttgagtatt totgatgagt 420  
gatgcttgcc ttagtctcat gaattcagat cccttcatgt cctttaagta tgcctcctcaa 480  
tgtgtaaaca ggaacaactt tatgatttga aagctttaaa ggagattctt ctcccacccc 540  
caactttatt tgcaatggga tttttcctag gagagttagt aaaagttgaa ggcttctaag 600  
ggaatactgt aaacatgacc cacttatatt tatcacagt aaaggcaaaa ttattcactc 660  
agaagtaata taaattacct ctttaaaaag taaccagaat ttgtcctttt tggttttata 720  
cattcacaaa catatacatt tttcttgagt ctcaaggat tttatatatt tagtcagaaa 780  
aaataatttt tcatctcagt tttccataaa ctgttacaca aaatataaac ctaacgtgta 840  
tttttcagga ctgcgtgatc gtgcactttg tgtggtaaga ggtttgagta gtcctatatg 900  
tcacctaggg aacagacatt atagcttcct agcaaatgaa tattcatgcc ttgtttttga 960  
tacctcctgg cagcttccat gtcaccactt gttcatacct gccagagct agtttttagac 1020  
atggcaaaat agaaatcatc tgtaatttat tagctaacaa tgtaaaacca tcttttaaag 1080  
ccttcagact gtcaagacga catgagcagc tcaccatatg ataaaaatac ataaatttga 1140  
cattccctct tccataaacc tttgtttgta gatttaattg tgaacagtac ttttcataa 1200  
agttctagtc acttctgttg gcctgagcca ccagattatg atgttgccag aattcactca 1260  
atttgaataa agatgaacag tatttgtttt cttgtttcca tgaattatat cagtattcta 1320  
aaacatcgct tcagaaagag aactgtttat ttctgcaggc ttctgtcctt tttgtggtat 1380  
ggttttttgg cttatttttc actggctttt ccttctccaa actttgaggc gtgatttcat 1440  
tcattgaaga atcaatacat attttgtttt aaaatgtttg aaacaaaaga catagatggg 1500  
agacttttat taaaacatat atggatgttg aaagcacata tattaatgca gtcacccctt 1560  
ttcaggtggg aagagagcaa accagttgat tttttaattc atccttagta cacagagaat 1620  
atacttttcc tcaagtaata tacctgtttg aagctttaag agagatgttt ttggtaaacta 1680

009220"69462960



005270 6962960

gtgctcgtca	gctttttacaa	cagctgggtca	catcctatcc	gtccacccaaa	atggtgattg	780
tgtcttttgca	cacttttcact	ctgcttgcag	cgctcatcttt	ggttgataca	cctaagcaga	840
ttcagcttct	gttgagctat	ttgaagaatg	atcccaggaa	ggcagtaaag	agacttgcta	900
ttcaagatct	gaaattactt	gctaataaaa	caccacatac	ttggagtagg	gagaatattc	960
aggcaactttg	tgagtgtgcc	ctccagactc	cttatgacag	cttaaaaacta	gggatgttgt	1020
ctgtccctttc	cacactatca	gggaccatcg	ccatcaaaca	ttacttcagt	atagttccag	1080
gaaatgtgag	ttcttctccc	agatcttctg	atttagtcaa	attagcccaa	gagtgtctgtt	1140
accataataa	caggggcatt	gcagctcatg	gagtttagagt	cctaactaat	ataactgttt	1200
cttgtcaaga	aaaggatctt	ttggcactgg	aacaagatgc	tgtctttggc	ctggaatccc	1260
tactgggtact	ttgtagtcaa	gatgatagtc	caggtgctca	ggccacttta	aagattgctc	1320
taaactgtat	ggtgaagtgt	gccaagggca	ggccccatct	tagccagtca	gtagttgaga	1380
ccttgttgac	tcaattgcac	agtgtctcaag	acgctgcccg	gattttgatg	tgccattgcc	1440
tggcagccat	tgccatgcaa	ctgccgggtgc	tgggtgatgg	gatgcttggg	gacctcatgg	1500
agctgtacaa	ggtgattgga	cgatcagcca	cagacaagca	acaagaactt	ctggtgagtt	1560
tggctactgt	gattttttgtt	gcaagtcaga	aggcattgtc	tgtggaaaagt	aaggcagtaa	1620
ttaagcagca	gcttgaaagt	gtctccaatg	gatggactgt	ataccgtatt	gccagacagg	1680
cttccagaat	gggtaatcat	gacatggcca	aagagcttta	tcagagtttg	ctgactcagg	1740
ttgcctcaga	acatttctac	ttctggctaa	atagtttgaa	ggagttttca	catgcagaac	1800
agtgtctcac	tgggttgcaa	gaggaaaatt	atagttcagc	actttcttgc	attgctgaat	1860
ctttaaaaatt	ctatcacaaa	gggattgctt	ccttaacagc	agctagtaca	ccactgaatc	1920
ctttaagott	tcagtggaaa	tttgtaaaaac	tcaggattga	cctttttacaa	gccttctctc	1980
aacttatctg	tacttgtaat	agcctgaaga	caagcccacc	acctgcaatt	gccacaacaa	2040
ttgccatgac	cttaggaaat	gacctccaga	ggtgtgtgtcg	catctccaat	cagatgaaac	2100
agtccatgga	agaatttcga	agccttgctt	ctcgatatgg	agatctttac	caggcatctt	2160
ttgatgctga	ctcagcaact	ttgaggaatg	ttgaactaca	gcagcagagc	tgtttactga	2220
tatctcatgc	aatagaagcc	ctgatttttg	atccagaatc	agcaagtttc	caggaatatg	2280
gatctactgg	aacagcccat	gctgatagtg	aatatgaaag	aagaatgatg	totgtatata	2340
atcatgtctt	ggaggaggta	gaatcactca	atcggaaata	taccctgtt	tcttatatga	2400
gataattttt	ccagaaacta	cagtctacca	gcacaaagct	tgtctgtgca	ccatcgcccc	2460
ggaatcctgc	agagcccatt	gctgtccaga	ataaccagca	gctggcgcta	aaggtagagg	2520
gagtgggttca	gcacggatct	aaaccaggac	tcttccgcaa	aattcagttc	gtctgtctga	2580
atgtttcttc	cacactgcag	agtaaactctg	gacaagacta	caagataccc	attgacaaca	2640
tgaccaatga	gatggagcaa	agggttgaac	ctcataatga	ttacttcagt	actcaatttc	2700
tgttgaactt	tgctatcctt	ggaacacaca	acattacagt	ggaatcttct	gtgaaagatg	2760
ccaatggtat	agtatggaag	actgggtccca	gaactaccat	atttgtaaaa	tccctggaag	2820
acccttattc	ccagcaaatt	cgcttacaac	agcagcaagc	ccagcagcca	ttacagcagc	2880
agcagcaacg	caatgcctac	acacggtttt	aaccatggaa	tgaatgcact	gcagactctc	2940
aagagatcaa	tcaaattggc	agaaacagtt	tggtttttca	tatggaataa	gtattaaagt	3000
tacagtgtag	ttcattttatt	cattgatttt	tgtaatgtaa	tattctggaa	aaaattttgt	3060
tttcttaaaa	attttgtctg	acagctgggc	gtggttgctc	acgcctgtaa	tcccagcact	3120
ttggggaggct	gaggtgggcg	gctcacgagg	agatcaagac	catcctggct	aacacagtga	3180
aaccccgctc	ccactaaaaa	atacaaaaaa	attagccaag	catggtggca	ggcgctgtga	3240
gtcccagcta	cttggggaggc	tgaggcagga	gaatggtgtg	aacctgggag	gcggagcttg	3300
cagtgagccg	agactgtgct	ccagcctggg	cgacagagcg	agactccgtc	tcaaaaaaat	3360
aaataaatac	attttgtttg					3380

<211> 617  
<212> PRT  
<213> Homo sapiens

<400> 11497

Met	Ala	Ser	Asn	Ser	Thr	Lys	Ser	Phe	Leu	Ala	Asp	Ala	Gly	Tyr	Gly
1				5					10					15	
Glu	Gln	Glu	Leu	Asp	Ala	Asn	Ser	Ala	Leu	Met	Glu	Leu	Asp	Lys	Gly
			20					25					30		
Leu	Arg	Ser	Gly	Lys	Leu	Gly	Glu	Gln	Cys	Glu	Ala	Val	Val	Arg	Phe
		35					40					45			
Pro	Arg	Leu	Phe	Gln	Lys	Tyr	Pro	Phe	Pro	Ile	Leu	Ile	Asn	Ser	Ala
	50					55					60				
Phe	Leu	Lys	Leu	Ala	Asp	Val	Phe	Arg	Val	Gly	Asn	Asn	Phe	Leu	Arg
65					70					75					80
Leu	Cys	Val	Leu	Lys	Val	Thr	Gln	Gln	Ser	Glu	Lys	His	Leu	Glu	Lys
				85					90					95	
Ile	Leu	Asn	Val	Asp	Glu	Phe	Val	Lys	Arg	Ile	Phe	Ser	Val	Ile	His
			100					105					110		
Ser	Asn	Asp	Pro	Val	Ala	Arg	Ala	Ile	Thr	Leu	Arg	Met	Leu	Gly	Ser
		115					120					125			
Leu	Ala	Ser	Ile	Ile	Pro	Glu	Arg	Lys	Asn	Ala	His	His	Ser	Ile	Arg
	130					135					140				
Gln	Ser	Leu	Asp	Ser	His	Asp	Asn	Val	Glu	Val	Glu	Ala	Ala	Val	Phe
145					150					155					160
Ala	Ala	Ala	Asn	Phe	Ser	Ala	Gln	Ser	Lys	Asp	Phe	Ala	Val	Gly	Ile
				165					170					175	
Cys	Asn	Lys	Ile	Ser	Glu	Met	Ile	Gln	Gly	Leu	Ala	Thr	Pro	Val	Asp
			180					185					190		
Leu	Lys	Leu	Lys	Leu	Ile	Pro	Ile	Leu	Gln	His	Met	His	His	Asp	Ala
	195					200						205			
Ile	Leu	Ala	Ser	Ser	Ala	Arg	Gln	Leu	Leu	Gln	Gln	Leu	Val	Thr	Ser
	210					215					220				
Tyr	Pro	Ser	Thr	Lys	Met	Val	Ile	Val	Ser	Leu	His	Thr	Phe	Thr	Leu
225					230					235					240
Leu	Ala	Ala	Ser	Ser	Leu	Val	Asp	Thr	Pro	Lys	Gln	Ile	Gln	Leu	Leu
				245					250					255	
Leu	Gln	Tyr	Leu	Lys	Asn	Asp	Pro	Arg	Lys	Ala	Val	Lys	Arg	Leu	Ala
			260					265					270		
Ile	Gln	Asp	Leu	Lys	Leu	Leu	Ala	Asn	Lys	Thr	Pro	His	Thr	Trp	Ser
	275						280					285			
Arg	Glu	Asn	Ile	Gln	Ala	Leu	Cys	Glu	Cys	Ala	Leu	Gln	Thr	Pro	Tyr
	290					295					300				
Asp	Ser	Leu	Lys	Leu	Gly	Met	Leu	Ser	Val	Leu	Ser	Thr	Leu	Ser	Gly
305					310					315					320
Thr	Ile	Ala	Ile	Lys	His	Tyr	Phe	Ser	Ile	Val	Pro	Gly	Asn	Val	Ser
				325					330					335	
Ser	Ser	Pro	Arg	Ser	Ser	Asp	Leu	Val	Lys	Leu	Ala	Gln	Glu	Cys	Cys

002240.69462960



-4978/13211-

340 345 350  
Tyr His Asn Asn Arg Gly Ile Ala Ala His Gly Val Arg Val Leu Thr  
355 360 365  
Asn Ile Thr Val Ser Cys Gln Glu Lys Asp Leu Leu Ala Leu Glu Gln  
370 375 380  
Asp Ala Val Phe Gly Leu Glu Ser Leu Leu Val Leu Cys Ser Gln Asp  
385 390 395 400  
Asp Ser Pro Gly Ala Gln Ala Thr Leu Lys Ile Ala Leu Asn Cys Met  
405 410 415  
Val Lys Leu Ala Lys Gly Arg Pro His Leu Ser Gln Ser Val Val Glu  
420 425 430  
Thr Leu Leu Thr Gln Leu His Ser Ala Gln Asp Ala Ala Arg Ile Leu  
435 440 445  
Met Cys His Cys Leu Ala Ala Ile Ala Met Gln Leu Pro Val Leu Gly  
450 455 460  
Asp Gly Met Leu Gly Asp Leu Met Glu Leu Tyr Lys Val Ile Gly Arg  
465 470 475 480  
Ser Ala Thr Asp Lys Gln Gln Glu Leu Leu Val Ser Leu Ala Thr Val  
485 490 495  
Ile Phe Val Ala Ser Gln Lys Ala Leu Ser Val Glu Ser Lys Ala Val  
500 505 510  
Ile Lys Gln Gln Leu Glu Ser Val Ser Asn Gly Trp Thr Val Tyr Arg  
515 520 525  
Ile Ala Arg Gln Ala Ser Arg Met Gly Asn His Asp Met Ala Lys Glu  
530 535 540  
Leu Tyr Gln Ser Leu Leu Thr Gln Val Ala Ser Glu His Phe Tyr Phe  
545 550 555 560  
Trp Leu Asn Ser Leu Lys Glu Phe Ser His Ala Glu Gln Cys Leu Thr  
565 570 575  
Gly Leu Gln Glu Glu Asn Tyr Ser Ser Ala Leu Ser Cys Ile Ala Glu  
580 585 590  
Ser Leu Lys Phe Tyr His Lys Gly Ile Ala Ser Leu Thr Ala Ala Ser  
595 600 605  
Thr Pro Leu Asn Pro Leu Ser Phe Gln  
610 615

<210> 11498

<211> 2670

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (403).. (1647)

<400> 11498

gctcgcaggc gggggtttcc atggtgatgg tcaacaagcc tcaactgcct ctgctacaac 60

008220" 69462960

09629469.072600

tgccaagttc	cccgcgctcc	accctcctct	agggtgctcca	agggaccacc	ggggtgcctg	120
atacagagag	gggagtgtag	agactcggag	gccgagggtg	agaacaaaaa	catgcacctg	180
gagtttcccc	ggagccctct	gcgtgggtga	gcttcgggtg	aatttcgggg	ctcttggtg	240
ccagccgcgc	ttgcctggta	gcaacagaaa	ccagtcctgc	tcgcctccgt	ggacatttca	300
ttaccatcca	gaagtgtctc	ccactgaagg	catccgtggt	tgtttttaag	ccacaaaaaa	360
gccacaccca	agatcacctg	acacccaccc	tgtcaagtgt	ccatgatgct	gggccttag	420
ggaggtgaag	gctttgtggt	caagctccgt	ggcctgccct	ggtcctgctc	tgttgaggac	480
gtgcagaact	tcctctctga	ctgcacgatt	catgatgggg	ccgcagggtg	ccatttcatt	540
tacactagag	agggcaggca	gagtgggtgag	gcttttggtg	aacttggtatc	agaagatgat	600
gtaaaaatgg	ccctgaaaaa	agacagggaa	agcatgggac	accggtacat	tgaggtgttc	660
aagtcccaca	gaaccgagat	ggattgggtg	ttgaagcaca	gtggtcccaa	cagtgccgac	720
agcgccaacg	atggcttcgt	gcggcttcga	ggactcccat	ttggatgcac	aaaggaagaa	780
attgttcagt	tcctctcagg	gttggaatt	gtgcaaacg	ggatcacatt	gcctgtggac	840
cccgaaggca	agattacagg	ggaagcgttc	gtgcagtttg	cctgcaggga	gttagctgag	900
aaggctctag	ggaaacacaa	ggagaggata	gggcacagggt	acattgaggt	gtttaagagc	960
agccaggagg	aagttaggtc	atactcagat	ccccctctga	agttcatgtc	cgtgcagcgg	1020
ccagggccct	atgaccggcc	cgggactgcc	aggagggtaca	ttggcatcgt	gaagcaggca	1080
ggccttgaaa	ggatgaggcc	tgggtgcctac	agcacagggt	acgggggcta	cgaggagtac	1140
agtggcctca	gtgatggcta	cggcttcacc	accgacctgt	tcgggagaga	cctcagctac	1200
tgtctctccg	gaatgtatga	ccacagatac	ggcgacagtg	agttcacagt	gcagagcacc	1260
acaggccact	gtgtccacat	gaggggcctg	ccgtacaaag	cgaccgagaa	cgacatttac	1320
aaacttctct	ctcctctcaa	ccctgtgaga	gtccatattg	agattggccc	agatggaaga	1380
gtgacgggtg	aagcagatgt	tgagtttgct	actcatgaag	aagctgtggc	agctatgtcc	1440
aaagacaggg	ccaatatgca	gcacagatat	atagaactct	tottgaattc	aacaacaggg	1500
gccagcaatg	gggcgtatag	cagccagggtg	atgcaaggca	tgggggtgtc	tgtgtcccag	1560
gccacttaca	gtggcctgga	gagccagtc	gtgagtggct	gttacggggc	cggctacagt	1620
gggcagaaca	gcatgggtgg	ctatgactag	ttttgttagg	aacatttgag	ttacttcaat	1680
cattttcaca	ggcagccaac	aagcaattaa	gagcagttat	aatagaggaa	gctgggggac	1740
ccattttgca	ccatgagttt	gtgaaaaatc	tggattaaaa	aattacctct	tcagtgtttt	1800
ctcatgcaaa	attttcttct	agcatgtgat	aatgagtaaa	ctaaaactat	tttcagctct	1860
totcaattaa	catttttggt	gtatacttca	gagtgtgttt	atctaagttt	aagtagttta	1920
agtatgttaa	atgtggatct	tttacaccac	atcacagtga	acacactggg	gagacgtgct	1980
tttttgga	actcaaaggt	gctagctccc	tgattcaaag	aaatatttct	catgtttgtt	2040
cattctagtt	tatatatttc	tttaaaatcc	tttaggttaa	gtttaagctt	tttaaaagtt	2100
agttttgaga	attgagacac	aatactaata	ctgttaggaat	tgggtgaggcc	ttgacttaaa	2160
actttctttg	tactgtgatt	tccttttggt	tgtattttgc	taagtgaaac	ttgttaaatt	2220
ttttgttaac	taaatttttt	tcttaaaata	aagacttttt	cacaatgact	ggcacagatt	2280
actcagcaaa	agatagcaaa	acgggtggtt	gaagataatt	catttttaac	gtaattgtatt	2340
ttagtgtgaa	tttaaaaatt	tcatacatca	aatctatgat	ctcccttata	ttcttatgat	2400
gaggctaaat	aaaagtctaa	taaaaatgtt	aaatatgtga	atgggtgaaa	tgggtgactag	2460
cagcacacat	tctgggaagc	atcaaataga	cacacggccc	cagccacctg	caacttatgt	2520
gcaactgtgt	aaaccattca	gaattttcct	gctaggccct	tgatgctgga	gtcacatctg	2580
ttgatagctg	gagaacttta	gtttcaagta	ctacattgtg	aaagcaatta	ttttgtttct	2640
cgtttttata	aaatgctgac	ttaaactttt				2670

<210> 11499

<211> 415

<212> PRT

<213> Homo sapiens

<400> 11499

Met	Met	Leu	Gly	Pro	Glu	Gly	Gly	Glu	Gly	Phe	Val	Val	Lys	Leu	Arg
1				5				10						15	
Gly	Leu	Pro	Trp	Ser	Cys	Ser	Val	Glu	Asp	Val	Gln	Asn	Phe	Leu	Ser
			20					25					30		
Asp	Cys	Thr	Ile	His	Asp	Gly	Ala	Ala	Gly	Val	His	Phe	Ile	Tyr	Thr
		35					40					45			
Arg	Glu	Gly	Arg	Gln	Ser	Gly	Glu	Ala	Phe	Val	Glu	Leu	Gly	Ser	Glu
	50					55					60				
Asp	Asp	Val	Lys	Met	Ala	Leu	Lys	Lys	Asp	Arg	Glu	Ser	Met	Gly	His
65					70					75					80
Arg	Tyr	Ile	Glu	Val	Phe	Lys	Ser	His	Arg	Thr	Glu	Met	Asp	Trp	Val
				85						90				95	
Leu	Lys	His	Ser	Gly	Pro	Asn	Ser	Ala	Asp	Ser	Ala	Asn	Asp	Gly	Phe
			100					105					110		
Val	Arg	Leu	Arg	Gly	Leu	Pro	Phe	Gly	Cys	Thr	Lys	Glu	Glu	Ile	Val
		115					120					125			
Gln	Phe	Phe	Ser	Gly	Leu	Glu	Ile	Val	Pro	Asn	Gly	Ile	Thr	Leu	Pro
	130					135					140				
Val	Asp	Pro	Glu	Gly	Lys	Ile	Thr	Gly	Glu	Ala	Phe	Val	Gln	Phe	Ala
145					150					155					160
Ser	Gln	Glu	Leu	Ala	Glu	Lys	Ala	Leu	Gly	Lys	His	Lys	Glu	Arg	Ile
				165					170					175	
Gly	His	Arg	Tyr	Ile	Glu	Val	Phe	Lys	Ser	Ser	Gln	Glu	Glu	Val	Arg
			180					185						190	
Ser	Tyr	Ser	Asp	Pro	Pro	Leu	Lys	Phe	Met	Ser	Val	Gln	Arg	Pro	Gly
		195				200						205			
Pro	Tyr	Asp	Arg	Pro	Gly	Thr	Ala	Arg	Arg	Tyr	Ile	Gly	Ile	Val	Lys
	210					215						220			
Gln	Ala	Gly	Leu	Glu	Arg	Met	Arg	Pro	Gly	Ala	Tyr	Ser	Thr	Gly	Tyr
225					230					235					240
Gly	Gly	Tyr	Glu	Glu	Tyr	Ser	Gly	Leu	Ser	Asp	Gly	Tyr	Gly	Phe	Thr
			245						250					255	
Thr	Asp	Leu	Phe	Gly	Arg	Asp	Leu	Ser	Tyr	Cys	Leu	Ser	Gly	Met	Tyr
		260					265						270		
Asp	His	Arg	Tyr	Gly	Asp	Ser	Glu	Phe	Thr	Val	Gln	Ser	Thr	Thr	Gly
		275					280					285			
His	Cys	Val	His	Met	Arg	Gly	Leu	Pro	Tyr	Lys	Ala	Thr	Glu	Asn	Asp
	290					295					300				
Ile	Tyr	Asn	Phe	Phe	Ser	Pro	Leu	Asn	Pro	Val	Arg	Val	His	Ile	Glu
305					310					315					320
Ile	Gly	Pro	Asp	Gly	Arg	Val	Thr	Gly	Glu	Ala	Asp	Val	Glu	Phe	Ala
			325						330					335	
Thr	His	Glu	Glu	Ala	Val	Ala	Ala	Met	Ser	Lys	Asp	Arg	Ala	Asn	Met
			340					345					350		

09629469.072800



```

atttacctct aatttcagtc tcactaatgt aaaatactgg gacttaagta tacaattcag 1740
tcactaactg tacagtttta tgtggggaac aattcatgca ggctactgga aaattaaatc 1800
ttattaccaa ctcccttgta tatctttgac atcaccatca catgagcaag atgatgtttt 1860
gcagcattcc ccattgctga tacaatgga gagggcagag aagactttat acaaccagtt 1920
tttcattgc agagtcttaa gaaagattat tagatgactt acctatatga ctaatgccat 1980
caggaactca gaggtatgaa tagggggttg tccatccctc ttccatactg aggtggagat 2040
gctcatgcaa tacttttaag gatgcatggg ccagccttca gttattcttc actgctcttg 2100
gtgaaggat gtggggagaaa aactaattat aatacgtttc ccagcctctg atggagaagg 2160
aacaccattc tgataccaga acatggttaa t                                     2191

```

<210> 11501

<211> 441

<212> PRT

<213> Homo sapiens

<400> 11501

```

Met Leu Ala Pro Ser Trp Glu Glu His Ala Thr Cys Leu Ala Asn Ala
  1           5           10           15
Glu Glu Gln Asp Met Gln Arg Val Leu Ile Asp Ile Ser Glu Lys Glu
          20           25           30
Ala Val Asn Leu Gln Gln Asp Ala Phe Val Val Ile Gly Arg Asp Thr
          35           40           45
Arg Pro Ser Ser Glu Lys Leu Ser Gln Ser Val Ile Asp Gly Val Thr
          50           55           60
Val Leu Gly Gly Gln Phe His Asp Tyr Gly Leu Leu Thr Thr Pro Gln
          65           70           75           80
Leu His Tyr Met Val Tyr Cys Arg Asn Pro Gly Gly Arg Tyr Gly Lys
          85           90           95
Ala Thr Ile Glu Gly Tyr Tyr Gln Lys Leu Ser Lys Ala Phe Val Glu
          100          105          110
Leu Thr Lys Gln Ala Ser Cys Ser Gly Asp Glu Tyr Arg Ser Leu Lys
          115          120          125
Val Asp Cys Ala Asn Gly Ile Gly Ala Leu Lys Leu Arg Glu Met Glu
          130          135          140
His Tyr Phe Ser Gln Gly Leu Ser Val Gln Leu Phe Asn Asp Gly Ser
          145          150          155          160
Lys Gly Lys Leu Asn His Leu Cys Gly Ala Asp Phe Val Lys Ser His
          165          170          175
Gln Lys Pro Pro Gln Gly Met Glu Ile Lys Ser Asn Glu Arg Cys Cys
          180          185          190
Ser Phe Asp Gly Asp Ala Asp Arg Ile Val Tyr Tyr Tyr His Asp Ala
          195          200          205
Asp Gly His Phe His Leu Ile Asp Gly Asp Lys Ile Ala Thr Leu Ile
          210          215          220
Ser Ser Phe Leu Lys Glu Leu Leu Val Glu Ile Gly Glu Ser Leu Asn
          225          230          235          240
Ile Gly Val Val Gln Thr Ala Tyr Ala Asn Gly Ser Ser Thr Arg Tyr

```

009270' 69462960





145					150				155				160
Ile	Arg	Val	Trp	Ser	Asp	Phe	Leu	Arg	Val	His	Leu	His	Pro
				165					170				175
Ile	Cys	Met	Ile	Gln	Lys	Tyr	Asn	His	Asp	Gly	Glu	Ala	Gly
			180					185					190
Glu	Ala	Phe	Gly	Gln	Gly	Glu	Ser	Val	Leu	Lys	Glu	Pro	Lys
		195					200					205	
Glu	Glu	Leu	Glu	Asp	Arg	Leu	His	Phe	Tyr	Val	Glu	Glu	Cys
	210					215					220		
Leu	Gln	Gly	Phe	Gln	Ile	Leu	Cys	Asp	Leu	His	Asp	Gly	Phe
225				230						235			240
Val	Gly	Ala	Lys	Ala	Ala	Glu	Leu	Leu	Gln	Asp	Glu	Tyr	Ser
			245						250				255
Gly	Ile	Ile	Thr	Trp	Gly	Leu	Leu	Pro	Gly	Pro	Tyr	His	Arg
		260						265					270
Ala	Gln	Arg	Asn	Ile	Tyr	Arg	Leu	Leu	Asn	Thr	Ala	Phe	Gly
		275					280					285	
His	Leu	Thr	Ala	His	Ser	Ser	Leu	Val	Cys	Pro	Leu	Ser	Leu
	290				295						300		
Ser	Leu	Gly	Leu	Arg	Pro	Glu	Pro	Pro	Val	Ser	Phe	Pro	Tyr
305					310					315			320
Tyr	Asp	Ala	Thr	Leu	Pro	Phe	His	Cys	Ser	Ala	Ile	Leu	Ala
			325						330				335
Leu	Asp	Thr	Val	Thr	Val	Pro	Tyr	Arg	Leu	Cys	Ser	Ser	Pro
		340						345					350
Met	Val	His	Leu	Ala	Asp	Met	Leu	Ser	Phe	Cys	Gly	Lys	Lys
		355				360						365	
Thr	Ala	Gly	Ala	Ile	Ile	Pro	Phe	Pro	Leu	Ala	Pro	Gly	Gln
	370				375						380		
Pro	Asp	Ser	Leu	Val	Gln	Phe	Gly	Gly	Ala	Thr	Pro	Trp	Thr
385					390					395			400
Ser	Ala	Cys	Gly	Glu	Pro	Ser	Gly	Thr	Arg	Cys	Phe	Ala	Gln
			405						410				415
Val	Leu	Arg	Gly	Ile	Asp	Arg	Ala	Cys	His	Thr	Ser	Gln	Leu
		420					425					430	
Gly	Thr	Pro	Pro	Pro	Ser	Ala	Leu	His	Ala	Cys	Thr	Thr	Gly
	435					440						445	
Ile	Leu	Ala	Gln	Tyr	Leu	Gln	Gln	Gln	Gln	Pro	Gly	Val	Met
	450				455					460			
Ser	His	Leu	Leu	Leu	Thr	Pro	Cys	Arg	Val	Ala	Pro	Pro	Tyr
465					470					475			480
Leu	Phe	Ser	Ser	Cys	Ser	Pro	Pro	Gly	Met	Val	Leu	Asp	Gly
			485						490				495
Lys	Gly	Ala	Ala	Val	Glu	Ser	Ile	Pro	Val	Phe	Gly	Ala	Leu
		500						505				510	
Ser	Ser	Ser	Leu	His	Gln	Thr	Leu	Glu	Ala	Leu	Ala	Arg	Asp
	515					520						525	
Lys	Leu	Asp	Leu	Arg	Arg	Trp	Ala	Ser	Phe	Met	Asp	Ala	Gly

000220.69462960



-4986/13211-

530		535		540
His Asp Asp Val Ala Glu Leu Leu Gln Glu Leu Gln Ser Leu Ala Gln				
545		550		555
Cys Tyr Gln Gly Gly Asp Ser Leu Val Asp				560
	565	570		

<210> 11504  
<211> 2840  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (8).. (2176)

<400> 11504  
tcccaagatg gcgtccatca tggaagggcc gctgagcaaa tggactaacg tgatgaaggg 60  
ctggcagtac cgttggttcg tgctggacta caatgcagga ctgctctcct actacacgtc 120  
caaggacaaa atgatgagag gctctcgag aggatgtgtt agactcagag gagctgtgat 180  
tggtatagac gatgaggacg acagcacctt cacaataact gttgatcaga aaaccttcca 240  
tttccaggcc cgtgatgctg atgagcgaga gaagtggatc catgccttag aagaaacaat 300  
tcttcgacat actctccagc ttcaaggttt ggattcagga tttgttccta gtgtccaaga 360  
ttttgataag aaacttacag aagctgatgc ttacctacaa atcttgattg aacaattaaa 420  
gctttttgat gacaagcttc aaaactgcaa agaagatgaa cagagaaaga aaattgaaac 480  
tctcaaagag acaacaaata gcatggtaga atcaattaaa cactgcattg tgttgctgca 540  
gattgcaaaa agtactatta atcccgtaga tgcaatatat caacctagtc ctttggacc 600  
tgtgatcagc acaatgcctt cccagactgt gttacctcca gaacctgttc agttgtgtaa 660  
gtcagagcag cgtccatctt ccctaccagt tggacctgtg ttggctacct tgggacatca 720  
tcagactcct acaccaaata gtacaggcag tggccattca ccaccgagta gcagtctcac 780  
ttctccaagc cacgtgaact tgtctccaaa tacagtccca gagttctctt actccagcag 840  
tgaagatgaa ttttatgatg ctgatgaatt ccatcaaagt ggctcatccc caaagcgctt 900  
aatagattct tctggatctg cctcagtcct gacacacagc agctcgggaa atagtctaaa 960  
acgcccagat accacagaat cacttaattc ttctttgtcc aatggaacaa gtgatgctga 1020  
cctgtttgat tcacatgatg acagagatga tgatgcggag gcagggtctg tggaggagca 1080  
caagagcgtt atcatgcac tcttgtcgca ggtagactt ggaatggatc ttactaaggt 1140  
agttcttcca acgtttattc ttgaaagaag atctctttta gaaatgtatg cagacttttt 1200  
tgcacatccg gacctgtttg tgagcattag tgaccagaag gatcccaagg atcgaatggg 1260  
tcaggttgtg aaatgggtacc tctcagcctt tcatgcggga aggaaaggat cagttgccaa 1320  
aaagccatac aatcccattt tgggcgagat ttttcagtgt cattggacat taccaaatga 1380  
tactgaagag aacacagaac tagtttcaga aggaccagt ccctgggttt caaaaaacag 1440  
tgtaacattt gtggctgagc aggtttccca tcatccacc atttcagcct tttatgctga 1500  
gtgttttaac aagaagatac aattcaatgc tcatatctgg accaaatcaa aattccttgg 1560  
gatgtcaatt ggggtgcaca acatagggca gggctgtgtc tcatgtctag actatgatga 1620  
acattacatt ctacattcc ccaatggcta tggaaggctc atcctcacag tgccctgggt 1680  
ggaattagga ggagaatgca atattaattg ttccaaaaca ggctatagtg caaatatcat 1740  
cttcacacact aaaccttct atgggggcaa gaagcacaga attactgcc agattttttc 1800  
tccaaatgac aagaagtctt tttgctcaat tgaaggggaa tggaatgggtg tgatgtatgc 1860

09629469.072800

```

aaaatatgca acaggggaaa atacagtctt thtagataacc aagaagttgc ctataatcaa 1920
gaagaaagtg aggaagttgg aagatcagaa cgagtatgaa tcccgcagcc tttggaagga 1980
tgtcactttc aacttaaaaa tcagagacat tgatgcagca actgaagcaa agcacaggct 2040
tgaagaaaga caaagagcag aagcccgaga aaggaaggag aaggaaattc agtgggagac 2100
aaggttatth catgaagatg gagaatgctg ggthttatgat gaaccattac tgaaacgtct 2160
tggtgctgcc aagcattagg ttggaagatg caaagtttat acctgatgat cagggcagta 2220
ggcataattc agcaacaaac aatcttcctt tgggagaaac ctgttcattc caatcttcta 2280
attacagtgg ttcctatctc agggatactg gactttctga cgcagatgaa caattaaggg 2340
gaaaagcttc ctttttccct ctgtggcagt tacgattttg acttcagtcc tgagaaaaac 2400
ttcaggtttt gaaaatcaga tgatgtcttc tctttttcca aacaccacac gttgaaagca 2460
tttataaatc caagtctgaa actctgcgct ctagtactgc tgtaagata cacaacttgt 2520
ttcttagttc atataatctc gggatacaca cacacacaca tatatatata cacacacata 2580
cgtatacaca cacatacata tataaatata cctgatgcaa gatttttttc ataaatattc 2640
tgctactgt aaatatgggt tctcttgagt tgthtttagaa aattagcgca atgtattaaa 2700
atcaagtgtt aggaaatttc atggtcttac ctacaataac ttttattttg gaattgaact 2760
attattaaat tgtatcta atctggattac agthtaatta attattotta gtgcttaagg 2820
cttcataaag taatttttcc 2840

```

<210> 11505  
 <211> 723  
 <212> PRT  
 <213> Homo sapiens

<400> 11505

Met	Ala	Ser	Ile	Met	Glu	Gly	Pro	Leu	Ser	Lys	Trp	Thr	Asn	Val	Met
1				5				10						15	
Lys	Gly	Trp	Gln	Tyr	Arg	Trp	Phe	Val	Leu	Asp	Tyr	Asn	Ala	Gly	Leu
			20					25						30	
Leu	Ser	Tyr	Tyr	Thr	Ser	Lys	Asp	Lys	Met	Met	Arg	Gly	Ser	Arg	Arg
			35					40						45	
Gly	Cys	Val	Arg	Leu	Arg	Gly	Ala	Val	Ile	Gly	Ile	Asp	Asp	Glu	Asp
			50					55						60	
Asp	Ser	Thr	Phe	Thr	Ile	Thr	Val	Asp	Gln	Lys	Thr	Phe	His	Phe	Gln
			65					70						75	
Ala	Arg	Asp	Ala	Asp	Glu	Arg	Glu	Lys	Trp	Ile	His	Ala	Leu	Glu	Glu
			85					90						95	
Thr	Ile	Leu	Arg	His	Thr	Leu	Gln	Leu	Gln	Gly	Leu	Asp	Ser	Gly	Phe
			100					105						110	
Val	Pro	Ser	Val	Gln	Asp	Phe	Asp	Lys	Lys	Leu	Thr	Glu	Ala	Asp	Ala
			115					120						125	
Tyr	Leu	Gln	Ile	Leu	Ile	Glu	Gln	Leu	Lys	Leu	Phe	Asp	Asp	Lys	Leu
			130					135						140	
Gln	Asn	Cys	Lys	Glu	Asp	Glu	Gln	Arg	Lys	Lys	Ile	Glu	Thr	Leu	Lys
			145					150						155	
Glu	Thr	Thr	Asn	Ser	Met	Val	Glu	Ser	Ile	Lys	His	Cys	Ile	Val	Leu
			165					170						175	
Leu	Gln	Ile	Ala	Lys	Ser	Thr	Ile	Asn	Pro	Val	Asp	Ala	Ile	Tyr	Gln

008270" 69462960







aagtaa	aatct	gaact	tagtc	agaac	atctc	tgccc	gggga	catttt	gtat	ttacc	gat	1200	
tgatg	gccaa	gtgtat	catc	tcact	gttga	aggaaa	actca	gtaaa	agaca	gtgct	cggat	1260	
tccacc	agat	ggaagt	atgg	gtagt	tattac	ctgcat	cgcct	tggaa	agggt	atacat	tagt	1320	
gcttg	gagat	atggat	tgaa	atttaa	aattt	ctggga	acttg	aaagg	cagag	tatcc	agagg	1380	
aataccc	caca	caccga	agtt	gggtg	aggaa	gattcg	tttt	gctcct	ggta	aaggaa	atca	1440	
aaaatta	ata	gcaat	gtaca	atgat	tgagc	tgaagt	gtgg	gatact	aaag	aggttc	cagat	1500	
ggtgag	cagt	ttaaga	agtg	gcagaa	atgt	gacctt	tcgt	atattg	gatg	tggact	ggtg	1560	
tacgtc	cagat	aaagt	gatct	tggcct	caga	tgatgg	gtgc	atcaga	gtcc	tagaga	tgtc	1620	
tatga	agtct	gcgtg	cttta	gaatg	gatga	acaaga	gtta	accgag	cctg	tgtgg	tgccc	1680	
ctatct	cctt	gttcca	aggg	cctct	cttgc	cttgaa	agcc	ttctta	tattac	accagc	cttg	1740	
gaatgg	acag	tattct	tttg	acattt	ctca	tgttga	ctat	ccagaa	aatg	aagaaa	taaa	1800	
gaatct	cctc	caaga	acagt	tgaatt	ccatt	gtcta	atgac	ataaa	gaaa	tggtg	cttga	1860	
tccaga	aattc	actct	cttgc	agagg	tgcct	gcttgt	tttca	aggct	ctatg	tgatg	aatc	1920	
ggagct	gcac	ttctg	gactg	tcgct	gcccc	ctacct	gcac	agctta	tccc	aggaaa	agtc	1980	
agccag	caca	acagct	cccta	aagaag	ctgc	tcctcg	agac	aaa	ctgag	ca	ccca	ctgga	2040
tatatg	ctat	aacgt	gctct	gtgaaa	atgc	ctactt	tcag	aaattt	tcagc	tagaa	aggg	2100	
taatct	acag	gaagt	gaaa	ggtca	actta	tgatca	taca	aggaa	atgta	cagacc	agct	2160	
actgct	cttg	ggtca	aacag	acagag	ctgt	gcagtt	gctg	ttggaa	acaa	gtgcag	ataa	2220	
ccagca	ttat	tactg	tgatt	cactg	aaaag	ctgttt	tagtc	actact	gtca	cctcgt	cagg	2280	
cccctc	tcag	agcacc	atta	agttg	gtgg	aacga	aatat	attgcca	aatg	gcaa	attgg	2340	
agagg	gcgt	cagtt	gctct	gcctg	ataga	taagg	ctgca	gacgc	ctgcc	gctacc	tgca	2400	
gacata	cggc	gagtg	gaatc	gggct	gcatg	gctgg	caaaa	gtccg	tttga	atcct	gagga	2460	
gtgtg	ccgat	gtttta	aggc	ggtgg	gttga	ccacct	tttgt	tcctca	caag	tcaat	cagaa	2520	
atcaa	aggct	ctcct	ggttc	tcctc	ctct	gggct	gcttt	tttag	cgtgg	cagaga	cgcct	2580	
tcacag	catg	agata	ctttg	ataga	gcagc	cttatt	ttgtg	gaagc	ttgcc	tcaag	tatgg	2640	
agcatt	tgaa	gtcact	gagg	acacag	agaa	actcat	ccact	gctata	tatg	cagatt	atgc	2700	
ccggag	tttg	aagaac	ctcg	gtttta	agca	gggag	cagtt	ctcttt	tgctt	caaaa	agccg	2760	
agcag	ctggc	aaagac	ttat	tgaat	gagct	tgagt	cccc	aagga	agaac	ccatt	gaaga	2820	
gtgac	agctt	aataa	atgcc	agggaa	atctg	acctg	gaagg	cagat	gggag	ggggc	tggtc	2880	
tggct	gtggc	caccg	tcaca	gtccag	gatg	aagagg	agta	cagggt	ccctg	tgagc	tgttt	2940	
gaccac	tgtt	ctaag	actat	gtgtg	cccaa	aagcac	ataa	gcata	ctatgt	tgagag	taag	3000	
tttgt	atcct	gcgtt	ggtct	cagaa	agaac	gtgaat	gctt	aagatt	tttga	aagtac	ataa	3060	
tatttt	tatac	tttgg	gagag	agctt	taaga	gtccct	tgga	atact	tttta	attttt	tttaa	3120	
cttaaa	aattc	aagag	actga	atcact	tttc	tcattg	atta	aatgt	aaaaga	ttattg	agaa	3180	
acctata	gta	aatga	aattt	gtgag	atgtt	ttctca	aaata	tatgt	ctgtg	ctgtac	ttat	3240	
atacag	tctt	tcaag	agaga	tacaa	acaag	gcagaa	acat	ttaaa	actagt	attaa	aggta	3300	
gtttac	caaaa	gcattt	ttttg	ttttc	ttacc	ttgaaa	acac	agaac	cgtta	attcct	ttgg	3360	
ttaag	cagtt	gctaag	tttt	gtaatt	tttag	gctcag	agga	ccatag	ggagg	tttta	agatt	3420	
tatgtt	tagt	ccgat	aggtg	aggtc	tttga	tatttt	gaa	tttaac	tcct	tttat	gatac	3480	
atcac	agtaa	cctcat	tttt	gaagt	ctttc	tttgt	acttt	aatgt	ttctct	ctgtt	cta	3540	
agttga	agta	tgagat	gtaa	ctatt	tataa	ctgtt	gctga	aaacata	aaat	gtctg	taact	3600	
tacaa	acatg	ataa	ataaat	taaaa	attcc							3630	

<210> 11508  
 <211> 864  
 <212> PRT  
 <213> Homo sapiens

00629469.072800

<400> 11508

Met	Val	Cys	Cys	Pro	Val	Asn	Glu	Asn	Ala	Ala	Ala	Leu	Val	Val	Ser
1				5					10					15	
Asp	Gly	Arg	Val	Met	Ile	Trp	Glu	Leu	Lys	Ser	Ala	Val	Cys	Asn	Arg
			20					25					30		
Asn	Ser	Arg	Asn	Ser	Ser	Ser	Gly	Val	Ser	Pro	Leu	Tyr	Ser	Pro	Val
		35					40					45			
Ser	Phe	Cys	Gly	Ile	Pro	Val	Gly	Val	Leu	Gln	Asn	Lys	Leu	Pro	Asp
	50					55					60				
Leu	Ser	Leu	Asp	Asn	Met	Ile	Gly	Gln	Ser	Ala	Ile	Ala	Gly	Glu	Glu
65					70					75					80
His	Pro	Arg	Gly	Ser	Ile	Leu	Arg	Glu	Val	His	Leu	Lys	Phe	Leu	Leu
				85					90					95	
Thr	Gly	Leu	Leu	Ser	Gly	Leu	Pro	Ala	Pro	Gln	Phe	Ala	Ile	Arg	Met
			100					105					110		
Cys	Pro	Pro	Leu	Thr	Thr	Lys	Asn	Ile	Lys	Met	Tyr	Gln	Pro	Leu	Leu
		115					120					125			
Ala	Val	Gly	Thr	Ser	Asn	Gly	Ser	Val	Leu	Val	Tyr	His	Leu	Thr	Ser
	130					135					140				
Gly	Leu	Leu	His	Lys	Glu	Leu	Ser	Ile	His	Ser	Cys	Glu	Val	Lys	Gly
145					150					155					160
Ile	Glu	Trp	Thr	Ser	Leu	Thr	Ser	Phe	Leu	Ser	Phe	Ala	Thr	Ser	Thr
				165					170					175	
Pro	Asn	Asn	Met	Gly	Leu	Val	Arg	Asn	Glu	Leu	Gln	Leu	Val	Asp	Leu
			180					185						190	
Pro	Thr	Gly	Arg	Ser	Ile	Ala	Phe	Arg	Gly	Glu	Arg	Gly	Asn	Asp	Glu
		195					200					205			
Ser	Ala	Ile	Glu	Met	Ile	Lys	Val	Ser	His	Leu	Lys	Gln	Tyr	Leu	Ala
	210					215					220				
Val	Val	Phe	Arg	Asp	Lys	Pro	Leu	Glu	Leu	Trp	Asp	Val	Arg	Thr	Cys
225					230					235					240
Thr	Leu	Leu	Arg	Glu	Met	Ser	Lys	Asn	Phe	Pro	Thr	Ile	Thr	Ala	Leu
				245					250					255	
Glu	Trp	Ser	Pro	Ser	His	Asn	Leu	Lys	Ser	Leu	Arg	Lys	Lys	Gln	Leu
			260					265					270		
Ala	Thr	Arg	Glu	Ala	Met	Ala	Arg	Gln	Thr	Val	Val	Ser	Asp	Thr	Glu
		275					280					285			
Leu	Ser	Ile	Val	Glu	Ser	Ser	Val	Ile	Ser	Leu	Leu	Gln	Glu	Ala	Glu
	290					295					300				
Ser	Lys	Ser	Glu	Leu	Ser	Gln	Asn	Ile	Ser	Ala	Arg	Gly	His	Phe	Val
305					310					315					320
Phe	Thr	Asp	Ile	Asp	Gly	Gln	Val	Tyr	His	Leu	Thr	Val	Glu	Gly	Asn
				325					330					335	
Ser	Val	Lys	Asp	Ser	Ala	Arg	Ile	Pro	Pro	Asp	Gly	Ser	Met	Gly	Ser
			340					345					350		
Ile	Thr	Cys	Ile	Ala	Trp	Lys	Gly	Asp	Thr	Leu	Val	Leu	Gly	Asp	Met
		355					360					365			

008220" 69462260

Asp Gly Asn Leu Asn Phe Trp Asp Leu Lys Gly Arg Val Ser Arg Gly  
370 375 380  
Ile Pro Thr His Arg Ser Trp Val Arg Lys Ile Arg Phe Ala Pro Gly  
385 390 395 400  
Lys Gly Asn Gln Lys Leu Ile Ala Met Tyr Asn Asp Gly Ala Glu Val  
405 410 415  
Trp Asp Thr Lys Glu Val Gln Met Val Ser Ser Leu Arg Ser Gly Arg  
420 425 430  
Asn Val Thr Phe Arg Ile Leu Asp Val Asp Trp Cys Thr Ser Asp Lys  
435 440 445  
Val Ile Leu Ala Ser Asp Asp Gly Cys Ile Arg Val Leu Glu Met Ser  
450 455 460  
Met Lys Ser Ala Cys Phe Arg Met Asp Glu Gln Glu Leu Thr Glu Pro  
465 470 475 480  
Val Trp Cys Pro Tyr Leu Leu Val Pro Arg Ala Ser Leu Ala Leu Lys  
485 490 495  
Ala Phe Leu Leu His Gln Pro Trp Asn Gly Gln Tyr Ser Leu Asp Ile  
500 505 510  
Ser His Val Asp Tyr Pro Glu Asn Glu Glu Ile Lys Asn Leu Leu Gln  
515 520 525  
Glu Gln Leu Asn Ser Leu Ser Asn Asp Ile Lys Lys Leu Leu Leu Asp  
530 535 540  
Pro Glu Phe Thr Leu Leu Gln Arg Cys Leu Leu Val Ser Arg Leu Tyr  
545 550 555 560  
Gly Asp Glu Ser Glu Leu His Phe Trp Thr Val Ala Ala His Tyr Leu  
565 570 575  
His Ser Leu Ser Gln Glu Lys Ser Ala Ser Thr Thr Ala Pro Lys Glu  
580 585 590  
Ala Ala Pro Arg Asp Lys Leu Ser Asn Pro Leu Asp Ile Cys Tyr Asn  
595 600 605  
Val Leu Cys Glu Asn Ala Tyr Phe Gln Lys Phe Gln Leu Glu Arg Val  
610 615 620  
Asn Leu Gln Glu Val Lys Arg Ser Thr Tyr Asp His Thr Arg Lys Cys  
625 630 635 640  
Thr Asp Gln Leu Leu Leu Leu Gly Gln Thr Asp Arg Ala Val Gln Leu  
645 650 655  
Leu Leu Glu Thr Ser Ala Asp Asn Gln His Tyr Tyr Cys Asp Ser Leu  
660 665 670  
Lys Ala Cys Leu Val Thr Thr Val Thr Ser Ser Gly Pro Ser Gln Ser  
675 680 685  
Thr Ile Lys Leu Val Ala Thr Asn Met Ile Ala Asn Gly Lys Leu Ala  
690 695 700  
Glu Gly Val Gln Leu Leu Cys Leu Ile Asp Lys Ala Ala Asp Ala Cys  
705 710 715 720  
Arg Tyr Leu Gln Thr Tyr Gly Glu Trp Asn Arg Ala Ala Trp Leu Ala  
725 730 735  
Lys Val Arg Leu Asn Pro Glu Glu Cys Ala Asp Val Leu Arg Arg Trp  
740 745 750

000220169469072800



Val Asp His Leu Cys Ser Pro Gln Val Asn Gln Lys Ser Lys Ala Leu  
755 760 765  
Leu Val Leu Leu Ser Leu Gly Cys Phe Phe Ser Val Ala Glu Thr Leu  
770 775 780  
His Ser Met Arg Tyr Phe Asp Arg Ala Ala Leu Phe Val Glu Ala Cys  
785 790 795 800  
Leu Lys Tyr Gly Ala Phe Glu Val Thr Glu Asp Thr Glu Lys Leu Ile  
805 810 815  
Thr Ala Ile Tyr Ala Asp Tyr Ala Arg Ser Leu Lys Asn Leu Gly Phe  
820 825 830  
Lys Gln Gly Ala Val Leu Phe Ala Ser Lys Ala Gly Ala Ala Gly Lys  
835 840 845  
Asp Leu Leu Asn Glu Leu Glu Ser Pro Lys Glu Glu Pro Ile Glu Glu  
850 855 860

<210> 11509  
<211> 1792  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (276).. (1790)

<400> 11509  
atagcattgt aactcagaat ggtgaagtat gctggaaaac aatcacagac tgtgtgagct 60  
acacagagtc agagcagggt ctggattact ggggaagcgt gaggcctgtgt ggccctgtgt 120  
gtgaggctgt ccattcacat ttcttatctc tgaccaagggt gcaatttgaa attcgatatg 180  
caccgtgggt ccagtggaca agttttccag agttatttcc tgaaatatgt gatgccttgg 240  
aaagtctaca atctcccgtt atttctctta gcttaatgaa actgacatcg tgtctagaac 300  
gagccttggg tgatgtatgt ttactgattg ggaaggaatg cccctttctt ttaagagatc 360  
tgctttcatc tgaggagctt gctcaagctt tcagtcagtc tgtgatgaat gtgctaaaag 420  
tcttcgttgg ctctccgtgt ggtctcaacc tgcgtaacgt cttatggcat gggtttgcgt 480  
cacctgaaga aattcctcca aaatactgtt caatgatgat actgttgacg gcaggattgg 540  
gtcagttact gaagagttac cttcaaaaaca ctaaacttac attggcacat cgctctttca 600  
tatctottac aaacctcgag gatttgattg tttttcctga tgttacttat gaggtgcttt 660  
cagtattaga agaagtgatg atgaaatctg cttttatatt aaaaatcatg ttaccatatt 720  
gggaagttgc actggtcaag ttcaagtcac acaggtttgc tgactgcgcc atattgttgc 780  
tgacacaaact ggagactgga cttaggaatg tttttgccac acttaacaga tgtccaaaaa 840  
gactcctgac tgctgagtca acagctcttt ataccacctt tgatcaaaata ttggcaaaaac 900  
acttgaatga tggtaaaatc aatcagcttc ctcttttctt tggagagcct gctatggaat 960  
ttctctggga ttctctgaac catcaggagg gtccccgcct aagagatcat ttaagccacg 1020  
gggagatcaa cttacatgaa ttttcaaaaag aaacaactaa tcagttgctt gcattttctc 1080  
ttgtactgct actcagattc gttgatgact gtctgctatc agtttttaag gaaaaatcag 1140  
ccgtagaatt gttgattagt cttgcagaag gctatagttc tcgctgtcat ccggtttttc 1200  
agcttaaaaa acaggtgctg agctgtgagg agagcatcag gggttgggct ctgctgcctt 1260  
tccccgaaga actcactcgg caagccgtca gattagaaga taattctgaa acaaatgcct 1320

000220' 69463960

```

gccactcttt gattacaaaa atgacggatg agctgtatca ccatatgcct gagaatcggt 1380
gtgtgttaaa ggacttggat cgtcttccta ctgagacacc aaccagcgat acgccgctag 1440
ccctggctcc cagaaagcog cagccttgca ggtgcagaag gagagtgagg cccagtatca 1500
gactactgtc ccctgtgctc agcctgatac tgttactcat tgcgctggag ttggtcaaca 1560
ttcatgctgt ttgtgggaag aatgcgcatg agtatcagca gtacctaaag tttgtaaagt 1620
cgatcttgca gtacacggag aacctgggtg cttacaccag ttacgaaaag aacaagtgga 1680
atgaaactat caatcttaca catacagcct tgttgaaaat gtggactttt agtgagaaga 1740
aacaatgttt aatacattta gccaagaaat ccacaagtaa agtactctta tg 1792

```

<210> 11510

<211> 505

<212> PRT

<213> Homo sapiens

<400> 11510

```

Met Lys Leu Thr Ser Cys Leu Glu Arg Ala Leu Gly Asp Val Phe Leu
 1           5           10           15
Leu Ile Gly Lys Glu Cys Pro Phe Leu Leu Arg Asp Leu Leu Ser Ser
          20           25           30
Glu Glu Leu Ala Gln Val Phe Ser Gln Ser Val Met Asn Val Leu Lys
          35           40           45
Val Phe Val Gly Ser Pro Cys Gly Leu Asn Leu Arg Asn Val Leu Trp
          50           55           60
His Gly Phe Ala Ser Pro Glu Glu Ile Pro Pro Lys Tyr Cys Ser Met
          65           70           75           80
Met Ile Leu Leu Thr Ala Gly Leu Gly Gln Leu Leu Lys Ser Tyr Leu
          85           90           95
Gln Asn Thr Lys Leu Thr Leu Ala His Arg Ser Phe Ile Ser Leu Thr
          100          105          110
Asn Leu Glu Asp Leu Ile Val Phe Pro Asp Val Thr Tyr Glu Val Leu
          115          120          125
Ser Val Leu Glu Glu Val Met Met Lys Ser Ala Phe Ile Leu Lys Ile
          130          135          140
Met Leu Pro Tyr Trp Glu Val Ala Leu Val Lys Phe Lys Ser His Arg
          145          150          155          160
Phe Ala Asp Cys Ala Ile Leu Leu Leu Thr Gln Leu Glu Thr Gly Leu
          165          170          175
Arg Asn Val Phe Ala Thr Leu Asn Arg Cys Pro Lys Arg Leu Leu Thr
          180          185          190
Ala Glu Ser Thr Ala Leu Tyr Thr Thr Phe Asp Gln Ile Leu Ala Lys
          195          200          205
His Leu Asn Asp Gly Lys Ile Asn Gln Leu Pro Leu Phe Leu Gly Glu
          210          215          220
Pro Ala Met Glu Phe Leu Trp Asp Phe Leu Asn His Gln Glu Gly Pro
          225          230          235          240
Arg Ile Arg Asp His Leu Ser His Gly Glu Ile Asn Leu His Glu Phe
          245          250          255

```

009220.69462960

Ser Lys Glu Thr Thr Asn Gln Leu Leu Ala Phe Ser Leu Val Leu Leu  
260 265 270  
Leu Arg Phe Val Asp Asp Cys Leu Leu Ser Val Phe Lys Glu Lys Ser  
275 280 285  
Ala Val Glu Leu Leu Ile Ser Leu Ala Glu Gly Tyr Ser Ser Arg Cys  
290 295 300  
His Pro Val Phe Gln Leu Lys Lys Gln Val Leu Ser Cys Glu Glu Ser  
305 310 315 320  
Ile Arg Val Trp Ala Leu Leu Pro Phe Pro Glu Glu Leu Thr Arg Gln  
325 330 335  
Ala Val Arg Leu Glu Asp Asn Ser Glu Thr Asn Ala Cys His Ser Leu  
340 345 350  
Ile Thr Lys Met Thr Asp Glu Leu Tyr His His Met Pro Glu Asn Arg  
355 360 365  
Cys Val Leu Lys Asp Leu Asp Arg Leu Pro Thr Glu Thr Pro Thr Ser  
370 375 380  
Asp Thr Pro Leu Ala Leu Ala Pro Arg Lys Pro Gln Pro Cys Arg Cys  
385 390 395 400  
Arg Arg Arg Val Arg Pro Ser Ile Arg Leu Leu Ser Pro Val Leu Ser  
405 410 415  
Leu Ile Leu Leu Leu Ile Ala Leu Glu Leu Val Asn Ile His Ala Val  
420 425 430  
Cys Gly Lys Asn Ala His Glu Tyr Gln Gln Tyr Leu Lys Phe Val Lys  
435 440 445  
Ser Ile Leu Gln Tyr Thr Glu Asn Leu Val Ala Tyr Thr Ser Tyr Glu  
450 455 460  
Lys Asn Lys Trp Asn Glu Thr Ile Asn Leu Thr His Thr Ala Leu Leu  
465 470 475 480  
Lys Met Trp Thr Phe Ser Glu Lys Lys Gln Met Leu Ile His Leu Ala  
485 490 495  
Lys Lys Ser Thr Ser Lys Val Leu Leu  
500 505

<210> 11511  
<211> 2543  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (488).. (853)

<400> 11511  
agtcccgga gcccggcctc gtgcgcgcgc ctttgagcct ctaggccatg aaactgcctc 60  
accaagcact atgcaattga gtgccacca gaagacaccc ctccagtcga cccacagacc 120  
ccagaaagag taccagagg agcctgagca cactccaccc tatctgttct ctgaaattca 180  
atcaaattgag tcaacttact tctctggaag cagaaagagg ctggaagttt ttctccagca 240

009220 69462960

```

gcagactgct cgacaaacac tgcgccaaga gtcctcagc agaagctcct cgcacagat 300
cctctgtgct gggaatcctc cctctttgag cactctgt gtcctcttc cagttacggt 360
gcatgtgaag caatggatg ggaaaattgt ttgcagaagg atgaaaaggc tttattgcca 420
aactcttaag gtattttgtt aataaaatca ttttcataat ggaaaagact cagaaaattc 480
ccctcgcatg acatataaca tccaacaagg ggctgaacca agaaaaaata ctgcagctgc 540
tgctaattggc aacactgagc aagcacctgg cctgtgccag gcactgtcct gtgcagtctg 600
tgittgcaact cattttatcc tcaagagcca gatgagcatc tccaccagac agcacctgca 660
gaggcttggg cagtttattt tacctgtctt gagtaaaata gggataataa gtaacagtac 720
ccatacacag gtggcagaga cgctagggaa cttgcccaag gtcacagagc ttccaagtgg 780
aggagcaggg acacatatgc tcacaatgat ggactaagg cacatgttgc ctggatggag 840
accagcccag agatgagagt tccaggacag agggaaacat gatggatcaa gtgaagtgc 900
agaacatttg gaaaactcta ccgagatata tacggccccc cagtaaaatt aaagagataa 960
agagaactac attaatgtgag acaataaggc aactctactt cttgcaggaa aaaaataatt 1020
gtggttatag aacactactg gttctgaggt gaatagcagt cacagagcca tcaaaatatg 1080
acccactca ctgaagtaat acaaagtgtc agtgtagcta tcccgggaag acgtggaagg 1140
ccgagcaagg accatggcac aagaggccac gctgtacctg gtatggtatg cagtggccaa 1200
gaggacccc ctgattccac ctagtgttca tgcccacgtg tgatctcctg ccccgtaggc 1260
tgggcctagc cactcacttc tgacagacag aagccaacaa aagcaacagg atgtcacttc 1320
taagtttagg ctataaacac actcagactt ccatctaggc tcacctcttg ctactctga 1380
tgaaagccag ctgccatgct gtcagctggg gagaggccca tgtggcagga actgaggaag 1440
tctttggcca cagcctgcaa ggaagtgaat cctgacacaa gctcactaga gtgagctggg 1500
aagtagatac ccttcagtca agctttcaga tgaggccaca atcctagcca acattttcat 1560
ttccacccat gagaaacctt gagccagaag acccaagcta agctacacct ggattcctga 1620
cccacagata ccatgataac agacattatt ttaagctgct atgttaggag taattagtta 1680
tttaggaata aggtaaacta tacatttata ttaatgggaa gtcagcagag aacattttaa 1740
tgataaaact gagaaatggc tgtgtgaagt tgtgatctgg aaacaggaga aaaatgcagc 1800
cctgaagaaa ggagttaaga gaggaaggag gagctactat gtctcatttt aaatcacgtg 1860
ggtggcatta tttgacttct ttttaagtac acggaagtgt tactttctta aatgaaaatg 1920
aaggtaacag cagcagtaaa ctaatttcca gtagatgaaa tgtgactttg taatcccagg 1980
aaaaggggag aatttgcacc aagaagttac tgttacctca gaatggcaag agcatggatg 2040
gctcttatca tcatctttat acttctttta catttctca ttttttaaaa gttttgtgta 2100
catattacat ttaggaaatc caatatatag tattaataca gaaaaagtaa agaagcaggc 2160
tgggcttggg gccactact caatttgact ggcttaaaaa aataattttt taaacgacat 2220
gtacggacag acataatact tgcttctgag cctcccagtc tttcaaaacc acattaggga 2280
ataagcagta tttgcatggt tccagtata tctgggagta agtgaaagta atgaaaacac 2340
agaagtaaac acaaagtaat tatagttcac ctttatacac acgttaacag aaatcatctg 2400
atcccccttg ctgctaagtg agttgaaaag cgaaagcgtc tgaatcccac cagcatcgct 2460
ggatgtgtca tccactgagc cttcatctcc catgaacttg acttttaacc aatttgctag 2520
aattctacag atttaaaaaa aac
2543

```

<210> 11512  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 11512  
 Met Thr Tyr Asn Ile Gln Gln Gly Ala Glu Pro Arg Lys Asn Thr Ala

009220.6942960

```

      1           5           10           15
Ala Ala Ala Asn Gly Asn Thr Glu Gln Ala Pro Gly Leu Cys Gln Ala
      20           25           30
Leu Ser Cys Ala Val Cys Val Cys Thr His Phe Ile Leu Lys Ser Gln
      35           40           45
Met Ser Ile Ser Thr Arg Gln His Leu Gln Arg Leu Gly Gln Phe Ile
      50           55           60
Leu Pro Ser Leu Ser Lys Ile Gly Ile Ile Ser Asn Ser Thr His Thr
      65           70           75           80
Gln Val Ala Glu Thr Leu Gly Asn Leu Pro Lys Val Thr Glu Leu Pro
      85           90           95
Ser Gly Gly Ala Gly Thr His Met Leu Thr Met Met Ala Leu Arg His
      100           105           110
Met Leu Pro Gly Trp Arg Pro Ala His Arg
      115           120

```

<210> 11513  
 <211> 2589  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (143).. (2266)

<400> 11513

```

agcaacatgg ccgccgcctg agaggagagc cgggccgcgcg ccgtctctgc agccccgcggg 60
taactggggc gttgccgcgcg tccgcgcctcg gccccgcgcg agagatcgag ctgaaggact 120
gcgcggctgg ctctcctcta gtatggccaa tgaagaggat gaccagttg tacaggagat 180
cgatgtgtac ttggccaaga gtctggcgga aaagctgtat ctatttcagt accctgtgcg 240
tccagcctcg atgacctacg atgacattcc gcacctctca gccaagatca agcccaagca 300
gcagaaggta gagcttgaga tggccatcga caccctgaac cccaactatt gccgcagcaa 360
aggggagcag attgcgtga acgtggacgg ggcttgcgcg gacgagacca gcacgtattc 420
ctcgaagctg atggacaagc agaccttctg ctcttcccag accaccagta acacatcccc 480
ttatgccgct gcactctaca ggcaagggtga gctccacctg acacctttac atggcatcct 540
gcagctgcgg cccagcttct cctacctgga taaggctgac gccaagcacc gggagaggga 600
ggcggccaac gaggcagggg actcttcaca ggatgaggcg gaagacgatg ttaagcagat 660
cacggtgcgg ttctcccggc cggagtcaga gcaggccgcg cagcgccgtg tgcagtccta 720
tgagttcctg cagaagaagc acgcagagga gccctgggtc cacctgcatt actatggcct 780
gagggacagt cgctctgagc atgagcgtca gtacctgctg tgccccggct caagcggggt 840
ggagaacacg gagctcgtca agtcaccacg tgagtacctg atgatgctga tgccaccacg 900
ccaggaggag gaaaaagaca agcctgtggc cccagcaaac gtctgttoga tggccacgct 960
gcgcacgctg cccctggccg atcagatcaa gatcctgatg aagaatgtga aggtcatgcc 1020
ttttgccaac ttgatgagcc tcctgggccc ctccatcgat tccgtggctg ttctgcgggg 1080
catccagaag gtggcgatgt tgggtccaagg gaactgggtg gtgaagagtg acatcctata 1140
ccccaaggac tcgtccagcc ctcacagcgg cgtgcctgct gaggtgctct gcaggggccc 1200
agacttcgtt atgtggaagt tcacgcagag ccgctgggtg gttaggaaaag aggtggcaac 1260

```

009629469 . 072300

cgtgacaaaa ctctgcgccc aggatgtgaa ggacttcctg gagcacatgg ccgtggtgag 1320  
 gatcaacaaa ggctgggagt tcattctgcc ttatgatggg gagttcatca agaagcacc 1380  
 ggatgtggtc cagcggcagc acatgctgtg gacgggtatc caggccaaac tggaaaaagt 1440  
 ctataatctt gtaaaggaaa ccatgccaaa gaagccggat gcacaatcag ggcctgccgg 1500  
 gctggtctgt ggggaccagc ggatccaagt agccaaaacc aaggcccagc agaaccacgc 1560  
 gttgctggag cgggagctgc agcggcggaa ggagcagctg cgggtgcctg cgggtccgcc 1620  
 cgggtgtcgg atcaaggagg agcccgtagc cgaggagggc gaggaggacg aggagcagga 1680  
 ggccggaggag gagcccatgg acacttcccc cagcggcctc cacagcaagc tggccaacgg 1740  
 gctgcctctc gggcgggctg cgggcacaga cagcttcaac gggcaccgcg ccaggggctg 1800  
 cgccagcacc cctgtggctc gggaactgaa ggoccttcgtg gaggccacct ttcagagaca 1860  
 gtttgtgctc acgctgagcg aactcaagcg cctcttcaat ctgcacttgg ccagcctgcc 1920  
 ccccgggcac acactcttca gcggcatctc ggaccgcatg ctacaggaca cgggtgctggc 1980  
 cgccggttgc aagcagatac tgggtgcctt tccccccag actgctgctt ccccggtatga 2040  
 gcagaagggtg tttgcctctt gggagtctgg agacatgagt gatcagcatc gacaggtttt 2100  
 gcttgaaatt ttttccaaaa attaccgggt acgccgaaac atgatccagt ctcggttgac 2160  
 tcaagagtgt ggagaagatc tcagtaaaca ggagggtggat aaagtactaa aggactgctg 2220  
 tgtaagctat ggtggcatgt ggtaccttaa agggacagta cagtcttgac aatagtagca 2280  
 aactactaac ccagcaaac taagcccaag gaagaagggc ggaaccagaa gtagggcctc 2340  
 gacttgcttc agacgacaca gagcaagagg aactgaccat ctcatgacct gtggcattgc 2400  
 acggtgcagt ggacagaagg gattatctc agccagtcgc agggtcagct taagttagtt 2460  
 agatcactcc cagaagagac cagctgggac cttctttgca gtacaatttg aaattcctga 2520  
 tgtattttgc ttattatttg gtttcattcc cataataaag agagtgtata ctgacatggg 2580  
 caggatgat 2589

<210> 11514  
 <211> 708  
 <212> PRT  
 <213> Homo sapiens

<400> 11514  
 Met Ala Asn Glu Glu Asp Asp Pro Val Val Gln Glu Ile Asp Val Tyr  
 1 5 10 15  
 Leu Ala Lys Ser Leu Ala Glu Lys Leu Tyr Leu Phe Gln Tyr Pro Val  
 20 25 30  
 Arg Pro Ala Ser Met Thr Tyr Asp Asp Ile Pro His Leu Ser Ala Lys  
 35 40 45  
 Ile Lys Pro Lys Gln Gln Lys Val Glu Leu Glu Met Ala Ile Asp Thr  
 50 55 60  
 Leu Asn Pro Asn Tyr Cys Arg Ser Lys Gly Glu Gln Ile Ala Leu Asn  
 65 70 75 80  
 Val Asp Gly Ala Cys Ala Asp Glu Thr Ser Thr Tyr Ser Ser Lys Leu  
 85 90 95  
 Met Asp Lys Gln Thr Phe Cys Ser Ser Gln Thr Thr Ser Asn Thr Ser  
 100 105 110  
 Arg Tyr Ala Ala Ala Leu Tyr Arg Gln Gly Glu Leu His Leu Thr Pro  
 115 120 125  
 Leu His Gly Ile Leu Gln Leu Arg Pro Ser Phe Ser Tyr Leu Asp Lys

09629469.072300

-5000/13211-

130						135						140							
Ala	Asp	Ala	Lys	His	Arg	Glu	Arg	Glu	Ala	Ala	Asn	Glu	Ala	Gly	Asp				
145						150						155			160				
Ser	Ser	Gln	Asp	Glu	Ala	Glu	Asp	Asp	Val	Lys	Gln	Ile	Thr	Val	Arg				
				165						170					175				
Phe	Ser	Arg	Pro	Glu	Ser	Glu	Gln	Ala	Arg	Gln	Arg	Arg	Val	Gln	Ser				
			180					185					190						
Tyr	Glu	Phe	Leu	Gln	Lys	Lys	His	Ala	Glu	Glu	Pro	Trp	Val	His	Leu				
		195					200					205							
His	Tyr	Tyr	Gly	Leu	Arg	Asp	Ser	Arg	Ser	Glu	His	Glu	Arg	Gln	Tyr				
210						215					220								
Leu	Leu	Cys	Pro	Gly	Ser	Ser	Gly	Val	Glu	Asn	Thr	Glu	Leu	Val	Lys				
225					230					235					240				
Ser	Pro	Ser	Glu	Tyr	Leu	Met	Met	Leu	Met	Pro	Pro	Ser	Gln	Glu	Glu				
				245					250					255					
Glu	Lys	Asp	Lys	Pro	Val	Ala	Pro	Ser	Asn	Val	Leu	Ser	Met	Ala	Gln				
		260						265					270						
Leu	Arg	Thr	Leu	Pro	Leu	Ala	Asp	Gln	Ile	Lys	Ile	Leu	Met	Lys	Asn				
		275					280					285							
Val	Lys	Val	Met	Pro	Phe	Ala	Asn	Leu	Met	Ser	Leu	Leu	Gly	Pro	Ser				
290					295					300									
Ile	Asp	Ser	Val	Ala	Val	Leu	Arg	Gly	Ile	Gln	Lys	Val	Ala	Met	Leu				
305					310					315					320				
Val	Gln	Gly	Asn	Trp	Val	Val	Lys	Ser	Asp	Ile	Leu	Tyr	Pro	Lys	Asp				
			325					330						335					
Ser	Ser	Ser	Pro	His	Ser	Gly	Val	Pro	Ala	Glu	Val	Leu	Cys	Arg	Gly				
			340					345					350						
Arg	Asp	Phe	Val	Met	Trp	Lys	Phe	Thr	Gln	Ser	Arg	Trp	Val	Val	Arg				
		355					360					365							
Lys	Glu	Val	Ala	Thr	Val	Thr	Lys	Leu	Cys	Ala	Glu	Asp	Val	Lys	Asp				
		370				375					380								
Phe	Leu	Glu	His	Met	Ala	Val	Val	Arg	Ile	Asn	Lys	Gly	Trp	Glu	Phe				
385				390						395					400				
Ile	Leu	Pro	Tyr	Asp	Gly	Glu	Phe	Ile	Lys	Lys	His	Pro	Asp	Val	Val				
			405					410						415					
Gln	Arg	Gln	His	Met	Leu	Trp	Thr	Gly	Ile	Gln	Ala	Lys	Leu	Glu	Lys				
			420					425					430						
Val	Tyr	Asn	Leu	Val	Lys	Glu	Thr	Met	Pro	Lys	Lys	Pro	Asp	Ala	Gln				
		435					440					445							
Ser	Gly	Pro	Ala	Gly	Leu	Val	Cys	Gly	Asp	Gln	Arg	Ile	Gln	Val	Ala				
	450				455					460									
Lys	Thr	Lys	Ala	Gln	Gln	Asn	His	Ala	Leu	Leu	Glu	Arg	Glu	Leu	Gln				
465				470						475					480				
Arg	Arg	Lys	Glu	Gln	Leu	Arg	Val	Pro	Ala	Val	Pro	Pro	Gly	Val	Arg				
			485					490					495						
Ile	Lys	Glu	Glu	Pro	Val	Ser	Glu	Glu	Gly	Glu	Glu	Asp	Glu	Glu	Gln				
		500					505					510							
Glu	Ala	Glu	Glu	Glu	Pro	Met	Asp	Thr	Ser	Pro	Ser	Gly	Leu	His	Ser				

009220" 69462960